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Result
No.
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Maximum Match 100%
Listing first 45 summaries
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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1: /cgn2_6/ptodats/1/iaa/5A_COMB.pep:*

2: /cgn2_6/ptodats/1/iaa/5B_COMB.pep:*

3: /cgn2_6/ptodats/1/iaa/6A_COMB.pep:*

4: /cgn2_6/ptodats/1/iaa/6B_COMB.pep:*

5: /cgn2_6/ptodats/1/iaa/PCTUS_COMB.pep:*

6: /cgn2_6/ptodats/1/iaa/backfiles1.pep:*
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                   US-09-280-501-6
US-09-270-804-11
US-09-270-804-11
US-09-811-3-3-3
US-08-801-803-3
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US-09-280-501-3
US-09-280-501-1
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US-09-011-922A-3
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Sequence 23 Appli
Sequence 14 Appli
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Sequence 11 Appl
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US-09-070-504-23
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                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: MCCOTMACK, Myra H
REGISTRATION NUMBER: 36,602
REFERENCE/DOCKET NUMBER: 180.
TELECOMMUNICATION INFORMATION:
TELEPIAN: 612/305-1220
TELEPIAN: 612/305-1228
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
SEQUENCE CHARACTERISTICS:
                                                                                     Query Match
Best Local S
Matches 31
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PATCHI NO. 6258474
GENERAL INFORMATION:
APPLICANT: Smith, Derek D.
APPLICANT: Saha, Shankar
APPLICANT: Abel, Peter W.
TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR
TITLE OF INVENTION: SUPERFAMILY AND METHODS OF USE
NUMBER OF SEQUENCES: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CORRESPONDENCE ADDRESS:
ADDRESSE: Mueting, Raasch & Gebhardt, P.A
STREET: 119 No. 6268474th Fourth Street
CITY: Minneapolis
STATE: MN
COUNTRY: USA
ZIP: 55401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: PATENTIN Release #1.0, '
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/070,504
FILING DATE: 30-APR-1998
CLASSIFICATION:
                                                                                                                                                                                          STRANDEDNESS:
TOPOLOGY: lin
MOLECULE TYPE:
                                                                                                                                                                                                                                                      TYPE: amino acids
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linear
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US-09-280-501-15
US-09-280-501-10
US-09-280-501-10
US-09-011-922A-2
US-08-966-388-4
US-09-188-404-4
US-09-188-404-4
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US-09-281-259-4
US-09-281-259-17
US-08-934-222-17
US-08-934-222-17
US-08-933-232-17
US-08-934-223-17
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US-08-933-818-17
US-08-933-813-17
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US-08-933-813-17
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10, Appl
2, Appli
4, Appli
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17, Appl
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RESULT 3
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US-09-011-922A-3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: J.; Hook, Wills
APPLICANT: Karen; Macri, C
TITLE OF INVENTION: Puncti
TITLE OF INVENTION: Adrend
TITLE OF INVENTION: Physic
                                                                                                                                                                                                                                                                                                                                                                                   INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/13286
PILING DATE: 16-Aug-1996
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/60/002,936
FILING DATE: 30-Aug-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/60/013,172
FILING DATE: 12-Mar-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/60/002,514
FILING DATE: 18-Aug-1995
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                             LENGTH: 31 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
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CURRENT APPLICATION DATA:
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ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Cuttitta, Frank; Martinez,
APPLICANT: Alfredo; Miller, Mae Jean; Unsworth, Edward
APPLICANT: J.; Hook, William; Walsh, Thomas; Grey,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM: MS WORD 97
SOFTWARE: ASCII
                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 202
                                                                                                                                                                                                                            NAME/KEY: P072
OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Leslie A. Serunian REGISTRATION NUMBER: 35,
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                                                                TVOKLAHQIYOFTDKDKDNVAPRSKISPQGY 31
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                                                                                                                                       Conservative
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                                                                                                                                                     Score 163; DB 3;
Pred. No. 3.6e-19;
                                                                                                                                       Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORTH TO THE MEDIUM TYPE: Floppy Disk MEDIUM TYPE: Floppy Disk COMPUTER: IBM PC Compatible COMPUTER: IBM PC COMPATING SYSTEM: MS WORD 97 SOFTWARE: ASCII CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (212) 751-68
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
APPLICANT: Cuttitta, Frank; Martinez,
APPLICANT: Alfredo; Miller, Mae Jean; Unsworth, Edward
APPLICANT: J.; Hook, William; Walsh, Thomas; Grey,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICATION NUMBER: US/09/
FILING DATE: 17-Feb-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/60/
FILING DATE: 18-Aug-1995
PRIOR APPLICATION NUMBER: US/60/
                                                                                                                                                                                                            MOLECULE TYPE: po
HYPOTHETICAL: NO
FEATURE:
                                                                                                                                                                                                                                                                     SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
TYPE: amino acid
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                      REGISTRATION NUMBER: 35,353
REFERENCE/DOCKET NUMBER: 20:
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEPAX: (212) 751-6849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 30-Aug-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/60/013,172
FILING DATE: 12-Mar-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/13286
FILING DATE: 16-Aug-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATTORNEY/AGENT INFORMATION:
NAME: Leslie A. Serunian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Functional TITLE OF INVENTION: Adrenomedu TITLE OF INVENTION: Product (P. TITLE OF INVENTION: Physiology NUMBER OF SEQUENCES: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
                                                                                                                                                                          OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COUNTRY: USA
ZIP: 10154-0053
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STREET: 345 Par
CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADDRESSEE:
TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY 31
                        TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY 31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Karen; Macri, Charles
                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MORGAN & FINNEGAN, L.L.P
                                                                                                                                                                                                                                                     peptide
                                                                                             100.0%; Score 163; DB 3; 100.0%; Pred. No. 3.6e-19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Adrenomedullin (AM) and Product (PAMP) in Human
                                                                                                                                                                          Synthetic homolog of two-thirds of the intact
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Functional Role of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US/60/002,514
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                                                                             Mismatches
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                                                                                                               Length 31;
                                                                             Indels
                                                                                                                                                                          peptide
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                                                                           Gaps
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US-09-280-501-9; Sequence 9, Application US/09280501; Patent No. 6440421; GENERAL INFORMATION: APPLICANT: Cooper, Garth James Smith

RESULT 4

Length 38;

Indels

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Gaps

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TYPE: PRT
ORGANISM: Homo sapiens
US-09-280-501-9
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                                                                                                                                                                                                                                             RESULT 6
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                                            Sequence 6, Application US/09280501
Patent No. 6440421
GENERAL INFORMATION:
APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jilian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: 180.00020102
CURRENT APPLICATION NUMBER: US/09/813,345C
CURRENT FILING DATE: 2001-03-20
PRIOR APPLICATION NUMBER: 09/070,504
PRIOR FILING DATE: 1998-04-30
NUMBER OF SEQ ID NOS: 23
SOFTWARE: Patentin version 3.2
SEQ ID NO 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 23, Application US/09813345C Patent No. 6756205 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match 100.0%; Score 163; DB 4; Best Local Similarity 100.0%; Pred. No. 3.6e-19; Matches 31; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Cornish, Jilian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERENCE: 08987-005001
CURRENT APPLICATION NUMBER: US/09/280,501
CURRENT FILING DATE: 1999-03-30
        CURRENT APPLICATION NUMBER: US/09/280,501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR SUPERFAMILY AND METHODS OF TITLE OF INVENTION: USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: CREIGHTON UNIVERSITY
APPLICANT: SMITH, Derek D.
APPLICANT: SAHA, Shankar
APPLICANT: ABEL, Peter W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NUMBER OF SEQ ID NOS: 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificially Synthesized Peptide
                                                                                                                                                                                                                                                                                                       1 TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY 31
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                               08987-005001
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US-09-070-504-14
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CURRENT FILING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR FILING DATE: 1996-04-18
NUMBER OF SEQ ID NOS: 17
SOPTWARE: PASTSEQ for Windows Version 4.0
SEQ ID NO 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURRENT FILING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR FILING DATE: 1996-04-18
NUMBER OF:SEQ ID NOS: 17
SOFTWARE: FastSEQ for Windows Version
SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.
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Patent No. 6268474
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Patent No. 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jilian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERENCE: 08987-005001
                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: PRT
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ENGTH:
                                                                                                                                                      CORRESPONDENCE ADDRESS:
ADDRESSEE: Mueting, Raasch & Gebhardt,
STREET: 119 No. 6268474th Fourth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ENGTH: 40
                                                                                                                                                                                                                     APPLICANT: Smith, Derek D.
APPLICANT: Saha, Shankar
APPLICANT: Abel, Peter W.
TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR
TITLE OF INVENTION: SUPERFAMILY AND METHODS OF USB
NUMBER OF SEQUENCES: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Match 100.0%; Score 163; DB 4; Local Similarity 100.0%; Pred. No. 4.6e-19;
                                                                                      COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10 TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY 40
                                                                         55401
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                                                                                                                                  Minneapolis
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                                                                                           USA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 163; DB 4;
100.0%; Pred. No. 4.9e-19;
tive 0; Mismatches 0;
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Length 40; Indels

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Gaps

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RESULT 10
US-08-233-389C-1
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; Sequence 1, Application
; Patent No. 5639855
; GENERAL INFORMATION:
APPLICANT: KITAMURE
; APPLICANT: KANGAWA,
                                                                                                                                                                                                                                                                                                           ; OTHER INFORMATION: Artificially Synthesized Peptide
US-09-813-345C-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-813-345C-14
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                                                                                                                                                                                                                                                      Query Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                    SOFTWARE: PatentIn version 3.2
SEQ ID NO 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Patent No. 6756205
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 14, Application US/09813345C
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/09/813,345C CURRENT FILING DATE: 2001-03-20 PRIOR APPLICATION NUMBER: 09/070,504 PRIOR FILING DATE: 1998-04-30 NUMBER OF SEQ ID NOS: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR SUPERFAMILY AND METHODS OF TITLE OF INVENTION: USE FILE REFERENCE: 180.00020102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: CREIGHTON UNIVERSITY
APPLICANT: SMITH, Derek D.
APPLICANT: SAHA, Shankar
APPLICANT: ABEL, Peter W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: 18
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612/305-1220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: MCCormack, Myra H
REGISTRATION NUMBER: 36,602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US,
FILING DATE: 30-APR-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS: 811
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                 22
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                                                                       Application US/08233389C
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   KANGAWA, Kenji
                                                                                                                                                                                                                                         Conservative
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100.0%; Pred. No. 6
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                                                                                                                                                                                                                                                    6.8e-19;
                                                                                                                                                                                                                                                                         DB 4;
                                                                                                                                                                                                                                                                       Length 52;
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US-08-801-863-1
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INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 185 amino
                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
APPLICANT: KITAMUR.
APPLICANT: KANGAWA
APPLICANT: MATSUO,
                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1, Application US/08801863 Patent No. 5830703
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                                                COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION UNMEER: US/08/801,863
APPLICATION UNMEER: US/08/801,863
FILING DATE: CONCURRENTLY HEREWITH
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: HALBY Jr., James F.
                                                                                                                                                                                                                                                                                                                         APPLICANT: ETO, Tai
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: SH
TELECOMMUNICATION INFORMATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: BTO, Tanenao
TITLE OF INVENTION: ADRENOMEDULLIN
NUMBER OF SEQUENCES: 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MOLECULE TYPE:
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                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADDRESSEB: C/C
                                                                                                                                                                                                     COUNTRY:
                                                                                                                                                                                                                          STREET: 1251 AV
CITY: New York
STATE: NY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 1251 AV CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TOPOLOGY:
                                                                                                                                                                                                                                                                            ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     116 TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY 146
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                                                                                                                                                                                                                                                            E: c/o FISH & NEAVE
1251 Avenue of the Americas
                                                                                                                                                                                                                                                                                                                                                              KANGAWA, Kenji
MATSUO, Hisayuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 163; DB 1; illarity 100.0%; Pred. No. 3.2e-18; Conservative 0; Mismatches 0;
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51 Avenue of the Americas
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US-08-486-596A-1
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                                                                                                                                                             US-08-486-596A-1

// MOLECULE TYPE: protein
US-08-801-863-1
                                                                                                                                                                                                                                                                                                     COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/00/486,596A
FILING DATE: JUNE 7, 1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: HALEY JT., James F.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: 27,794
REFERENCE/DOCKET NUMBER: SHGN-5 DIVI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
TETTERY JOINT SEGGRAPHONE
TELEPHONE: (212) 596-9000
                                                                         Query Match 100.0%; Score 163; DB 2; Best Local Similarity 100.0%; Pred. No. 3.2e-18; Matches 31; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1, Application US/08486596A Patent No. 5837823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 31; Conservative 0
                                                                                                                                                                                                      TELEPAX: (212) 596-9090
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 185 amino acids
TYPE: amino acid
TOPOLOXY: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEFAX: (212) 596-9090 INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE CHARACTERISTICS:
LENGTH: 185 amino acids
TYPE: amino acid
TYPE: amino acid
                                                                                                                                                                   TOPOLOGY: linear MOLECULE TYPE: protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: ETO, Tanenao
TITLE OF INVENTION: ADRENOMEDULLIN
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: KANGAWA, Kenji
APPLICANT: MATSUO, Hisayuki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TELECOMMUNICATION INFORMATION: TELEPHONE: (212) 596-9000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REGISTRATION NUMBER: 27,794
116 TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY 146
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                        TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY 31
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                                                                                                                  Length 185;
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; LENGTH: 30
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-280-501-5
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GENERAL INFORMATION:
                                                                                     NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 5
                                                                                                                                                                                                                                                                                                                                                                               GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 5, Application US/09280501 Patent No. 6440421
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                                                                                                                                                   APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jillian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERENCE: 08987-005001
CURRENT FILING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR FILING DATE: 1996-04-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (212) 596-9090
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
LENGTH: 185 amino acids
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NAME: HALEY Jr., James F.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: SHGN-5 DIV2 CON
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
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APPLICANT: KANGAWA, Kenji
APPLICANT: WATSUO, Hisayuki
APPLICANT: ETO, Tanenao
TITLE OF INVENTION: ADRENOMEDULLIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: C/O FISH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: US/09/00 FILING DATE: JANUARY 7, 1998 CLASSIFICATION: 435
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COUNTRY: USA
ZIP: 10020
ZIP: 10020
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/233,389C
FILING DATE: 26-APR-1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: HALEY JI., James F.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: SHGN-5
TELEPHONE: (212) 596-9000
TELEPHONE: (212) 596-9000
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 188 amino acids
TYPE: amino acids
TYPE: amino acids
TYPE: protein
US-08-233-389C-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patent No. 5639855

GENERAL INFORMATION:
APPLICANT: KITAMURA, Kenji
APPLICANT: KANGAWA, Kenji
APPLICANT: MATSUO, Hisayuki
APPLICANT: ETO, Tanenao
ITITLE OF INVENTION: ADRENOMEDULLIN
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: c/o FISH & NEAVE
STREET: 1251 Avenue of the Americas
Search completed: January 5, 2005, 08:45:19 Job time: 24.9545 secs
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US-08-233-389C-3
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                                                                                                                                                          Query Match 96.3%; Score 157; DB 1; Length 188; Best Local Similarity 96.8%; Pred. No. 3e-17; Matches 30; Conservative 0; Mismatches 1; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET: 1251 AV
CITY: New York
STATE: NY
                                                                                  116 TVQKLAHQIYQFTDKDKDGVAPRSKISPQGY 146
                                                                                                       1 TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Application US/08233389C
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76
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Listing first 45 summaries
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 GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
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AAW25159
ADP16710
ADP18404
AAW25160
AAAB9176
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ADP18408
ADP18409819
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RESULT 1 AAW25159 ID AAW25159; XX XX XX AAW25159; XX DT 08-DEC-1997 (first entry) XX DT 08-DEC-1997 (first entry) XX Entropy of the control of the control

ALIGNMENTS

OS Homo sapiens.

XX

FH Key

FT Peptide

FT Peptide

FT Homosapiens

Inocation/Qualifiers

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(USSH) US DEPT HEALTH & HUMAN SERVICES.

PI Cuttitta P, Martinez A, Miller MJ, Unsworth BJ, Hook W, Walsh T; PI Gray K, Macri C; CX

DR WPI; 1997-165298/15.

PT Human adrenomedullin peptide(s), PO70, PO71, PO72 and PAMP-20 - used in PT the diagnosis and treatment of type II diabetes and cancer.

S Claim 1; Page 43; 106pp; English.

Human adrenomedullin (AM) peptides PO70, PO71, PO72 and PAMP-20 were used tor the production of anti-AM antibodies (Ab). PO70 represents preproAM

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RESULT 2
ADF16710
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CC amino acids (aa) 34-41 with the sequence Tyr-Tyr attached at the N-CC terminus, PO71 represents preproAM as 122-131 with the sequence Tyr-Gly-CC Gly attached at the N-terminus, PO72 represents preproAM as 116-146 and CC PAWP-20 represents the proAM N-terminus. The Ab are useful for the CC prevention and/or treatment of cancers by inhibiting cell growth. They care also useful for regulating that in secretion and blood glucose compared to the diagnosis or treatment of conditions relating to They may be used for the diagnosis or treatment of conditions relating to CC pregnancy e.g. precelampsia. The Ab are also useful for the following: CC (i) regulating neurotransmission or neuron growth in areas of the central nervous system; (ii) lessening or inhibiting mast cell degranulation and CC nervous system; (ii) lessening or inhibiting mast cell degranulation and CC nervous system; (ii) lessening or inhibiting mast cell degranulation and CC nervous system; (ii) lessening or inhibiting mast cell degranulation and CC nervous system; (ii) lessening or inhibiting mast cell degranulation and CC nervous system; (ii) lessening or inhibiting mast cell degranulation and CC nervous system; (iii) lessening or inhibiting or treat infection; (iv) conditions results betterial and fungal growth (to treat infection); (iv)
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Best Local S
Matches 13
                                                                                                                           28-JAN-2002;
26-PEB-2002;
28-FEB-2002;
27-MAR-2002;
27-MAY-2002;
10-MAY-2002;
24-MAY-2002;
24-JUN-2002;
10-JUL-2002;
24-JUL-2002;
10-JUL-2002;
11-AUG-2002;
11-AUG-2002;
                                                                                                                                                                                                                                                                                                                                       21-DEC-2001;
24-JAN-2002;
28-JAN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              albumin fusion protein; albumin activity; human serum albumin; serum osmotic pressure; shelf-life; stability; antidiabetic; gene therapy; diabetes mellitus; human; gene; ds.
                                                                                                                                                                                                                                                                                                                                                                                                      23-DEC-2002; 2002WO-US040891.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2003060071-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human albumin fusion protein-related protein SeqID1812.
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2002US-0378950P
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2002US-0382617P
2002US-0383123P
2002US-0383123P
2002US-0389628P
2002US-0399608P
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GENOME SCI INC.
BIOTECHNOLOGY LTD
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Pred. No. 1.9e-06;
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                                                                                                                                                                                                                                                                            antiinflammatory; analgesic; antidiabetic; neurogenesis modulator; neural stem cell; progenitor cell; neural tissue G-protein coupled receptor activator; neural camp enteral camp enhancer; intracellular neural camp enhancer; intracellular neural camp enhancer; parkinson's disease; parkinson's disease; multiple sclerosis; amyotrophic lateral sclerosis; Shy-Drager syndror progressive supranuclear palsy; Lewy body disease; spinal ischaemia; ischaemic stroke; cerebral infarction; spinal cord injury; cancer-related brain; spinal cord injury; multi-infarct dementia; camp level; embryonic tissue; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This invention relates to a novel albumin fusion protein having albumin or biological activity. Human serum albumin is responsible for a significant proportion of the osmotic pressure of serum and also functions as a carrier of endogenous and exogenous ligands. The fusion of albumin to a therapeutic protein may increase shelf-life and stability of the therapeutic protein. The albumin fusion protein of the invention may allow production of compositions with antidiabetic activity whilst the nucleotide sequence which encodes it may be useful for gene therapy. The albumin fusion protein is useful for preparing a composition for treating diabetes mellitus. The present sequence is that of a therapeutic protein which was fused with human albumin to create a novel albumin fusion protein of the invention. Note: The sequence data for this patent did not form part of the printed specification, but was obstained in electronic format directly from WIPO at ftp.wipo.int/pub/publishedpct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cerebroprotective; vasotropic; anticonvulsant; antiparkinsonian; haemostatic; hypertensive; muscular-Gen; ophthalmological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      neurogenesis modulation; neural tissue; central nervous system disorder; neurodegenerative; ischaemic; learning and memory disorder; neurological trauma; nootropic; neuroprotective; CNS-Gen;
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stimulator;
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20-NOV-2003; 2003WO-IB005311

03-JUN-2004.

20-NOV-2002;

2002US-0427912P

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CC levels in the neural tissue, which is administered where (A) induces neurogenesis. The invention may be useful for the CC production of compounds with a noctropic, neuroprotective, CNS-Gen, CC cerebroprotective, vasotropic, anticonvulsant, antiparkinsonian.

CC haemostatic, hypertensive, muscular-Gen, ophthalmological, cartifical mmatory, analgesic or antidiabbetic activity. These compounds may compound to the neurogenesis modulators, neural stem or progenitor cell grotein coupled receptor activators, neurogenesis inducers, circular neural cAMP enhancers, intracellular neural tissue compounds may compound to the neurogenesis in neurogenesis in neural cartification is cuseful for modulating neurogenesis in neural tissue of a patient cartification of disease and Parkinson's disorders, Huntington's disease, alleting neurogenesis and expressive supranuclear palsy, tewy body disease, alleting cartification deprinting and spinal cord injury, cancer-related brain and spinal cord injury, multi-infarct dementia and geriatric dementia; for increasing the intracellular neural tissue of or stimulation, migration or survival of neurogenesis. The agent modulates of neurogenesis in neural tissue by modulating proliferation.

CC ells in the tissue; by maintaining or increasing the intracellular levels of or stimulation, migration or survival of neural stem cells or progenitor cells in the tissue, the neural stem cells in the neural tissue relative to a patient not dosed with the agent or by activation of a G-protein of campiled receptor in the neural tissue of the meural cand objury or disease by endogenous of the neural stem cells by over 20% compared to untreated tissue. The individual of neurogenesis allows treatment of cells into a survival of neurogenesis allows treatment of cells into a survival of neurogenesis allows treatment of tissue. The neurogenesis allows treatment of the neurogenesis into a survival o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              agent
(CAMP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   This invention relates to a novel method of modulating neurogenesis in the neural tissue of a patient exhibiting symptom(s) of a central nervous system disorder, such as neurodegenerative, ischaemic or learning and memory disorder or neurological trauma. The method involves at least one
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure;
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(OSSO/)
(PATR/)
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(BERT/)
(ERLA/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (ROEN/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LUND/)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PATRONB C.
ROENNHOLM H.
ZACHRISSON O.
WIKSTROEM L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MERCER A.
NJBERG K.
OSSOINAK A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NEURONOVA AB.
BERTILSSON G.
ERLANDSSON R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MCGUIRE J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   KORTESMAA J.
LINDQUIST P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HEIDRICH J.
HELLSTROEM K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HAEGESTRAND A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JANSSON K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            HAEGGBLAD J.
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H, Zach
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Erlandsson R,
Haeggblad J,
wire J, Mercer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                calcium levels in neural tissue for modulating
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the need
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Jansson K,
A, Njberg |
Wikstroem L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          English.
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Kortesmaa J, Lindquist P;
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nervous

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Human adrenomedullin (AM) peptides PO70, PO71, PO72 and PAMP-20 were use for the production of anti-AM antibodies (Ab). PO70 represents preproAM amino acids (aa) 34-41 with the sequence Tyr-Tyr attached at the N-terminus, PO71 represents preproAM as 122-131 with the sequence Tyr-Gly-Gly attached at the N-terminus, PO72 represents preproAM as 116-146 and PAMP-20 represents the proAM N-terminus. The Ab are useful for the prevention and/or treatment of cancers, e.g. adrenal, nervous system, lung, colon, ovarian and breast cancer by inhibiting cell growth. They

and PAMP-20 were used

Claim 1; Page 43; 106pp; English

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RESULT 4
AAW25160
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                 18-AUG-1995;
30-AUG-1995;
12-MAR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  neurogenesis-modulating agent directly into a desired site, which avoid unnecessary systemic administration and possible side effects and furtiprovides an alternative to the use of drugs and the controversial use large quantities of embryonic tissue for treatment of Parkinson's disease. The present sequence is that of a polypeptide which has been shown to have the ability to increase intracellular cAMP levels and where the ability to increase intracellular cAMP levels and where the ability to increase intracellular cAMP levels and where the ability to increase intracellular cAMP levels and where the ability to increase intracellular cAMP levels and where the ability to increase intracellular cAMP levels and where the ability to increase intracellular cAMP levels and where the ability to increase intracellular cAMP levels and where the control is the control of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             skin; blood related; disease; type II diabetes; reurotransmission regulation; allergy; mast cell antibacterial; antifungal; wound repair.
                                                                                                                                                                                                                Human adrenomedullin peptide(s), PO70, the diagnosis and treatment of type II
                                                                                                                                                                                                                                                                                                                                       Cuttitta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-FEB-1997.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modified-site
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                                                                                                                                                                                                                                                                           1997-165298/15.
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                                                                                                                                                                                                                                                                                                                                     '3
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                                                                                                                                                                                                                                                                                                                                                                            DEPT HEALTH & HUMAN SERVICES.
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95US-0002936P.
96US-0013172P.
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100.0%; Pr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       detection; diagnosis; cancer; renal; bone;
                                                                                                                                                                                                                                                                                                                                       Miller MJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   31
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          be induced by administration
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                                                                                                                                                                                                                                                                                                                                       Unsworth
                                                                                                                                                                                                                  PO71, PO72 and PAMP-20 - diabetes and cancer.
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RESULT 5
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XX DT XX
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The present invention describes a modified therapeutic peptide (I) comprising a therapeutically active amino acid region (III) and a reactive group (II) (e.g. succinimidy) and maleimido groups) attached to a less therapeutically active amino acid region (IV), which covalently bonds with amino/hydroxyl/thiol groups on blood components to form a peptidase stabilised therapeutic peptide composed of 3-50 amino acids. (I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity in vivo for the treatment of various disorders. Endogenous therapeutic peptides are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body. Modifying and attaching therapeutic peptides to albumin prevents or reduces the action of peptidases to increase length of activity (half crife) and specificity as bonding to large molecules decreases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local (
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10-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                are also useful for regulating insulin secretion and blood glucose metabolism and therefore for treating and/or preventing diabetes type II. They may be used for the diagnosis or treatment of conditions relating to pregnancy e.g. preeclampsia. The Ab are also useful for the following:

(i) regulating neurotransmission or neuron growth in areas of the central nervous system; (ii) lessening or inhibiting mast cell degranulation and hence reducing the effects of an allergic response; (iii) inhibiting or preventing bacterial and fungal growth (to treat infection); (iv) faccilitating wound healing; and (v) promoting organ and bone development
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Modifying and attaching therapeutic peptides to albumin peptidase degradation, useful for increasing length of i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 499-500; 733pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bridon
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protection; endogenous therapeutic peptide; peptidase; conjugation; blood component; modification; succinimidyl; maleimido group; amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Adrenomedullin peptide (AM) SEQ ID
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                                                                                                The invention relates to antagonists of the vasoactive peptide calcitonin gene related peptide (CGRP) and other members of the CGRP superfamily. The invention also relates to amino the terminal modifications of peptides to improve their ability to bind to a member of the CGRP receptor super-family. CGRP antagonists are used for inhibiting CGRP activity which can be used in vitro e.g. in assays to identify and/or isolate CGRP receptors or with intact cells either in vitro or in vivo to inhibit the effect of CGRP binding to its receptor. The present sequence
                                                                                                                                                                                                                         Vasoactive peptides useful for inhibiting calcitonin gene related receptor activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     intracellular uptake and interference with physiological processes. AAB90829 to AAB92441 represent peptides which can be used in the exemplification of the present invention
                                                                   Sequence 31
                                                                                                                                                                                                     Claim
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                                neurodegenerative; ischaemic; learning and memory disorder; neurological trauma; nootropic; neuroprotective; CNS-Gen; cerebroprotective; vasotropic; anticonvulsant; antiparkinsonian; haemostatic; hypertensive; muscular-Gen; ophthalmological; antiinflammatory; analgesic; antidiabetic; neurogenesis modulato
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     compositions for treating cancer e.g. stomach cancer, colon cancer, pulmonary cancer, ovarian cancer, liver cancer or pancreatic cancer current sequence represents an angiogenesis inhibiting peptide of the content of the composition of the c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to peptides comprising an amino acid sequence (S1) given derived from a fully defined 52 amino acid sequence (S1) given specification. Peptides may be created by deletion of some amin from the N-terminal of S1. The peptides are applicable in drug
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                     neurogenesis modulation; neural tissue; central nervous system disorder;
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intracellular neural cAMP enhancer; intracellular neural cAMP stimular intracellular neural cAMP enhancer; Parkinson's disease; parkinson's disease; parkinson's disease; multiple sclerosis; amyotrophic lateral sclerosis; Shy-Drager syndror progressive supranuclear palsy; Lewy body disease; spinal ischaemia; ischaemic stroke; cerebral infarction; spinal cord injury; cancer-related brain; spinal cord injury; multi-infarct dementia; geriatric dementia; cAMP level; embryonic tissue; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo
                                      Hellstroem_
                                                          Bertilsson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-NOV-2003; 2003WO-IB005311.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 03-JUN-2004
        Roennholm
                                                                                                           (PATR/)
(ROEN/)
(ZACH/)
                                                                                                                                                                                           (MCGU/
                                                                                                                                                                                                                                                                            (JANS)
                                                                                                                                                                                                                                                                                            (HEID/
(HEEG/
                                                                                                                                                                                                                                                                                                                                                                                                                                              20-NOV-2002; 2002US-0427912P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   neural tissue G-protein coupled receptor activator; neurogenesis inducer;
                                                                                                                                                                             (NJBB)
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                                                                                                                                                                                                                                                             KORT
                                                                                        MERCER A.
NJBERG K.
OSSOINAK A.
PATRONE C.
ROENNHOLM H.
ZACHRISSON O.
WIKSTROEM L.
                                                                                                                                                                                                                                                                         HAEGGBLAD .
JANSSON K.
                                                                                                                                                                                                                                                                                                                                                                     BERTILSSON G.
ERLANDSSON R.
                                                                                                                                                                                                                                                                                                                                                                                                             NEURONOVA AB
                                                                                                                                                                                                                                                                                                          HEIDRICH J.
HELLSTROEM K.
                                                                                                                                                                                                                                        KORTESMAA J.
LINDQUIST P.
                                                                                                                                                                                                                                                                                                                                            HAEGESTRAND A.
                                                                                                                                                                                                                                                                                                                                                              PRISEN J.
                                                                                                                                                                                                          MCGUIRE J.
                                                                                                                                                                                                                            LUNDH H.
      Ξ
                      Mcguire
                                         স্ত
        Zachrisson
                        Erlandsson R,
Haeggblad J,
Wercer
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Frigen J, har Jansson K, Kort A, Njberg K,
                        Haegestrand A, Heidrich
Kortesmaa J, Lindquist
K, Ossoinak A, Patrone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cAMP stimulator;
                                                            Heidrich
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    syndrome;
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WPI; 2004-449666/42.

neurogenesis of agent(s) that elevate intracellular cyclic adenosine monophosphate intracellular calcium levels in neural tissue for modulating to treat central nervous system disorder.

Disclosure; SEQ ID NO 17; 77pp; English.

CC This invention relates to a novel method of modulating neurogenesis in CC the neural tissue of a patient exhibiting symptom(s) of a central nervous CC system disorder, such as neurodegenerative, ischaemic or learning and CC memory disorder or neurological trauma. The method involves at least one CC (cAMP) levels or at least one agent (B) that elevates intracellular cyclic adenosine monophosphate CC (cAMP) levels or at least one agent (B) that elevates intracellular Ca 2+ CC levels in the neural tissue, which is administered where (A) modulates CC and (B) induces neurogenesis. The invention may be useful for the production of compounds with a nootropic, neuroprotective, CNS-Gen, CC cerebroprotective, vasotropic, anticonvulsant, antiparkinsonian.

CC deam inflammatory, analgesic or antidiabetic activity. These compounds may act as neurogenesis modulators, neural stem or progenitor cell proliferation, differentiation and/or migration modulators, neural tissue CC intracellular neural cAMP enhancers, intracellular neural cAMP enhancers, intracellular neural cAMP enhancers, intracellular neural cAMP enhancers intracellular neural cAMP enhancers intracellular neural cAMP enhancers, intracellular neural cAMP enhancers

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RESULT 9
AAB91768
ID AAB9
XX AAB9
XX AAB9
XX AAB9
XX AAB9
XX AAB9
XX Prot
KW Prot
KW Prot
KW bloc
KW hydi
XX Homc
OS Synt
XX WO2(
PN WO2(
XX II-1
PF 110-{
PR 115-{
PR 15-{
PR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                              17-MAY-1999;
10-SEP-1999;
15-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protection; endogenous therapeutic peptide; peptidase; conjugation; blood component; modification; succinimidyl; maleimido group; amino hydroxyl; thiol; hormone; growth factor; neurotransmitter.
Modifying and attaching therapeutic peptides peptidase degradation, useful for increasing
                                                                                                                  WPI; 2001-112059/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-MAY-2000; 2000WO-US013576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23-NOV-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200069900-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Adrenomedullin peptide (AM) SEQ ID NO:944.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB91768 standard; peptide; 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Shy-Drager syndrome,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               as Parkinsor
Alzheimer's
                                                                                                                                                                                                                                                           (CONJ-) CONJUCHEM INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           HQIYQFTDKD 13
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                                                                                                                                                                                 Ezrin AM,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
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99US-0153406P.
99US-0159783P.
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progressive supranuclear palsy, Lewy body diseas
chaemic stroke, cerebral infarction, spinal cord
                                                                                                                                                                                     Milner
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Pred. No.
                                                                                                                                                                                 g,
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                                                                                                                                                                                     Holmes
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0.011;
                                                                                                                                                                                 μ,
to albumin prevents length of in vivo a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>.</u>.
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vivo activity
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HQIYQFTDKD

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                                                                                                                                 The present invention describes a modified therapeutic peptide (I) CC comprising a therapeutically active amino acid region (III) and a CC reactive group (II) (e.g. succinimidyl and maleimido groups) attached to CC a less therapeutically active amino acid region (IV), which covalently CC bonds with amino/hydroxyl/thiol groups on blood components to form a CC peptidase stabilised therapeutic peptide composed of 3-50 amino acids. CC (I) are useful for modifying therapeutic peptides e.g. hormones, growth CC factors and neurotransmitters, to protect them from peptidase activity in CC vivo for the treatment of various disorders. Endogenous therapeutic CC uptides are not suitable as drug candidates as they require frequent CC deptides are not suitable as drug candidates as they require frequent CC modifying and attaching therapeutic peptides to albumin prevents or CC reduces the action of peptidases to increase length of activity (half CC life) and specificity as bonding to large molecules decreases CC intracellular uptake and interference with physiological processes. CC AAB90829 to AAB92441 represent peptides which can be used in the CC exemplification of the present invention
                                              Matches
                                                                                                                                 Sequence 40 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 502; 733pp;
                                                                     Local
  4 HQIYQFTDKD
                                              10;
                                                                  Similarity
                                              Conservative
  13
                                                                  75.0%;
                                              ç,
                                                                     Score 57;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               English
                                              Mismatches
                                                                     0.014;
                                                                                         DB 4;
                                              <u>.</u>
                                                                                       Length 40;
                                              Indels
                                              0;
                                              Gaps
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'n

RESULT 10 AAE09819 Rat; vasoactive peptide; calcitonin gene related peptide; CGRP; CGRP-receptor identification; adrenomedullin. 31-JUL-2001 29-NOV-2001 Rat adrenomedullin peptide AAE09819; AAE09819 standard; US6268474-B1 (first entry) peptide; 50 B

30-APR-1998; 30-APR-1998; 98US-00070504 98US-00070504

(UYCR-) UNIV CREIGHTON

WPI; 2001-564216/63.

Smith

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Saha

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PW

Vasoactive peptides useful for inhibiting calcitonin gene related peptide receptor activity.

Claim 5; Col 25-26; 24pp; English

The invention relates to antagonists of the vasoactive peptide calcitonin gene related peptide (CGRP) and other members of the CGRP superfamily. The invention also relates to amino the terminal modifications of peptides to improve their ability to bind to a member of the CGRP-receptor super-family. CGRP antagonists are used for inhibiting CGRP activity which can be used in vitro e.g. in assays to identify and/or isolate CGRP receptors or with intact cells either in vitro or in vivo to receptors or with

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RESULT 12
AAB91765
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ADE51616
ID ADE5
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                                                                                                    Query Match
Best Local Similarity
                                                                                            Matches
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Best Local
                                                                                                                                                                                                                               New modified vasoactive calcitonin related gene peptides in the treatment of migraines and cardiac disorders, and identification of CGRP antagonists.
 AAB91765;
                 AAB91765 standard; peptide; 52 AA.
                                                                                                                              Sequence
                                                                                                                                            The invention relates to a new modified vasoactive peptide. The vasoactive peptides are useful in inhibiting calcitonin gene related vasoactive peptides are useful in inhibiting calcitonin gene related peptide CGRP binding to one or more receptors, identifying CGRP antagonists, and identifying a CGRP receptor in a cell. The peptides are also useful in treating migraine, diabetes, sepsis, inflammation, cardiac disorders, and acts as a potent vasodilator. The present sequence represents the amino acid sequence of an adrenomedullin protein.
                                                                                                                                                                                                                                                                    WPI; 2003-874533/81.
                                                                                                                                                                                                                  Claim 7;
                                                                                                                                                                                                                                                                                                                                                                        US2002068814-A1
                                                                                                                                                                                                                                                                                                    (UYCR-) UNIV CREIGHTON
                                                                                                                                                                                                                                                                                                                     30-APR-1998;
                                                                                                                                                                                                                                                                                                                                      20-MAR-2001; 2001US-00813345
                                                                                                                                                                                                                                                                                                                                                       06-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                         Rattue
                                                                                                                                                                                                                                                                                                                                                                                                         sepsis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                 vasoactive;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Adrenomedullin protein #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-JAN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                inhibit the effect of CGRP binding is rat adrenomedullin peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity
                                                                           HQIYQFTDKD 13
                                                                                                                              50
                                                                                                                                                                                                               SEQ ID NO 15; 26pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard; protein; 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HQIYQFTDKD 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                50 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                 calcitonin
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ilarity 100.0%;
Conservative
                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                     98US-00070504
                                                                                                    75.0%;
                                                                                                                                                                                                                                                                                                                                                                                                       n gene related peptide; CGRP; migraine; diabetes; cardiac disorder; vasodilator; adrenomedullin; r
                                                                                                                                                                                                                                                                                    BA
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Pred.
                                                                                                    Score 57; DB 7; Pred. No. 0.019;
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Mismatches
                                                                                            Mismatches
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                                                                                                            Length 50;
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                                                                                            Indels
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                                                                                            Gaps
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                                                                                                                                                                                                                                                  useful
                                                                                                                                                              cardiac
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                                                                          RESULT 13
AAB91759
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Protection; endogenous therapeutic peptide; peptidase; conjugation;
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comprising a therapeutically active amino acid region (III) and a creactive group (III) (e.g. succinimidyl and maleimido groups) attached to a less therapeutically active amino acid region (IV), which covalently bonds with amino/hydroxyl/thiol groups on blood components to form a peptidase stabilised therapeutic peptide composed of 3-50 amino acids. (I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity in vivo for the treatment of various disorders. Endogenous therapeutic peptides are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body. Modifying and attaching therapeutic peptides to albumin prevents or reduces the action of peptidases to increase length of activity (half life) and specificity as bonding to large molecules decreases in the section of the periods of large molecules decreases. AAB90829 to AAB92441 represent peptides which can be used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 10
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10-SEP-1999;
15-OCT-1999;
Adrenomedullin peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 52
                                                  22-JUN-2001
                                                                                                  AAB91759,
                                                                                                                                           AAB91759 standard; peptide;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention describes a modified therapeutic peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; Page 501; 733pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Modifying and attaching therapeutic peptides to albumin prevents peptidase degradation, useful for increasing length of in vivo a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-MAY-2000; 2000WO-US013576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-NOV-2000.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Protection; endogenous therapeutic peptide; peptidase; conjugation; blood component; modification; succinimidyl; maleimido group; amino; hydroxyl; thiol; hormone; growth factor; neurotransmitter.
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                                                                                                                                                                                                                                                                                                                     HQIYQFTDKD 13
                                                                                                                                                                                                                                                                       HQIYQFTDKD
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99US-0153406P.
99US-0159783P.
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100.0%; Pr
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  SEQ ID NO: 935.
                                                                                                                                                                                                                                                                                                                                                                  Score 57; DB 4;
Pred. No. 0.019;
0; Mismatches
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                                                                                                                                                                                                                                  Matches
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10-SEP-1999;
15-OCT-1999;
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hydroxyl; thiol;
           WO200127310-A1
                              Homo sapiens.
                                                Adrenomedullin; glycine extended adrenomedullin; AM; AM-gly; adrenomedullin precursor; fusion protein; pharmaceutical; di
                                                                             Human adrenomedullin (AM) protein.
                                                                                                  31-JUL-2001
                                                                                                                                       AAB75110 standard; protein; 52
                                                                                                                                                                                                                                                                         Sequence 52
                                                                                                                                                                                                                                                                                          exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; Page 498; 733pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Modifying and attaching therapeutic peptides peptidase degradation, useful for increasing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-112059/12
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                                                                                                (first entry
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99US-0153406P.
99US-0159783P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     modification; succinimidyl; maleimido group; amino; hormone; growth factor; neurotransmitter.
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                                                                                                                                                                                                                                            75.0%;
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                                                                                                                                                                                                                                           Score 57;
Pred. No.
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0.019;
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                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                   Length 52;
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                                                                                                                                                                                                                                  Indels
                                                 diagnostic.
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AAE09818
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Claim 5; Col 25-26; 24pp; English
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Query Match
Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               adrenomedullin precursor. The method comprises: (a) producing the fused protein using a recombinant host cell; (b) restricted digestion of the fused protein by a protease followed by collection of sediment; and (c) dissolving the sediment and extracting adrenomedullin precursor. The method can be used for the production of adrenomedullin precursor for pharmaceutical and diagnostic applications. AAH19806 to AAH19866 and AAB75110 to AAB75124 represent sequences which are used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Producing adrenomedullin useful application comprises producing recombinant host.
Vasoactive peptides useful for inhibiting receptor activity.
                                                                                                                                                                                                                           30-APR-1998;
                                                                                                                                                                                                                                                                    31-JUL-2001.
                                                                                                                                                                                                                                                                                                                                                                                        Human; vasoactive peptide; calcitonin gene related peptide; CGRP; CGRP-receptor identification; adrenomedullin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human adrenomedullin peptide #1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 52 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page 45; 75pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2001-282044/29.
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                                                             WPI; 2001-564216/63
                                                                                                                                                                                   30-APR-1998;
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                                                                                                                                             (UYCR-) UNIV CREIGHTON
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ches 0;
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CC The invention relates to antagonists of the vasoactive peptide calcitonin CC gene related peptide (CGRP) and other members of the CGRP superfamily. CC The invention also relates to amino the terminal modifications of CC peptides to improve their ability to bind to a member of the CGRP-CC receptor super-family. CGRP antagonists are used for inhibiting CGRP-CC activity which can be used in vitro e.g. in assays to identify and/or CC isolate CGRP receptors or with intact cells either in vitro or in vivo to CC inhibit the effect of CGRP binding to its receptor. The present sequence XX Squence 52 AA;

Query Match
Best Local Similarity 100.0%; Score 57; DB 4; Length 52;
Best Local Similarity 100.0%; Pred. No. 0.019;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 28 HQIYQFTDKD 13
Db 28 HQIYQFTDKD 37

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Gapop 10.0 ,
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Copyright (c) 1993 - 2005 Compugen
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US-09-280-501-2
US-09-280-501-3
US-09-280-501-5
US-09-280-501-5
US-09-280-501-5
US-09-280-501-5
US-09-280-501-922A-14
US-09-011-922A-14
US-09-013-345C-6
US-09-0280-501-6
US-09-0280-501-6
US-09-0280-501-1
US-09-0280-501-1
US-09-0280-501-1
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US-09-0280-501-1
US-09-0280-501-1
US-09-031-345C-14
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                                                -233-389C-3
-801-863-3
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                  Sequence 2, Appli
Sequence 15, Appli
Sequence 2, Appli
Sequence 3, Appli
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Sequence 14, Appli
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Sequence 6, Appli
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Sequence 14, Appli
Sequence 17, Appli
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Sequence 18, Appli
Sequence 19, Appli
Sequence 11, Appli
Sequence 12, Appli
Sequence 13, Appli
Sequence 3, Appli
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COMPUTER HEALMANDS FURNAIS
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC Compatible
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: MS WORD 97
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/011,922A
FILING DATE: 17-Feb-1998
PRIOR APPLICATION NUMBER: US/60/002,514
FILING DATE: 18-Aug-1995
PRIOR APPLICATION NUMBER: US/60/002,936
FILING DATE: 30-Aug-1995
PRIOR APPLICATION NUMBER: US/60/003,172
FILING DATE: 12-Max-1996
PRIOR APPLICATION NUMBER: US/60/013,172
FILING DATE: 16-Aug-1996
PRIOR APPLICATION NUMBER: US/60/013,172
FILING DATE: 16-Aug-1996
ATTORNEY/AGENT INFORMATION:
NAME: Leblie A. Serunian
REGISTRATION NUMBER: 35,353
REFERENCE/DOCKET NUMBER: 30,353
REFERENCE/DOCKET NUMBER: 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 1
US-09-011-922A-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Cuttitta, Frank; Martinez,
APPLICANT: Alfredo; Miller, Mae Jean; Unsworth, Edward
APPLICANT: J.; Hook, William; Walsh, Thomas; Grey,
APPLICANT: Karen; Macri, Charles
TITLE OF INVENTION: Functional Role of
TITLE OF INVENTION: Adrenomeduilin (AM) and the Gene-Related
TITLE OF INVENTION: Product (PAMP) in Human Pathology and
TITLE OF INVENTION: Physiology
NUMBER OF SEQUENCES: 17
CORRESSEE; WORGAN & FINNEGAN, L.L.P.
STREET: 345 Park Avenue
CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 2, Application US/09011922A Patent No. 6320022 GENERAL INFORMATION:
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US-09-280-501-17

US-09-286-796x-21094

US-09-266-965-116

US-09-525-991A-19737

US-09-634-238-241

US-08-956-171B-5230

US-08-781-986A-5230

US-08-781-986A-5230

US-09-252-991A-25900

US-09-352-991A-21838

US-09-352-991A-21838

US-09-352-991A-21838

US-09-368-169-8

US-09-368-169-8

US-09-368-169-8

US-09-177-532A-5073

US-09-270-767-44718
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Sequence 17, Appl
Sequence 21094, A
Sequence 21094, A
Sequence 21737, A
Sequence 241, App
Sequence 241, App
Sequence 2530, Ap
Sequence 2530, Ap
Sequence 25900, A
Sequence 21838, A
Sequence 8, Appli
Sequence 5962, Appli
Sequence 5962, Appli
Sequence 6072, Ap
Sequence 6073, Ap
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; NAME/KEY: P071
; OTHER INFORMATION: YGG-PreproAM (122-131)
US-09-011-922A-2
; SEQ ID NO 1; LENGTH: 26; TYPE: PRT; ORGANISM: Homo sapiens US-09-280-501-1
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US-09-280-501-15
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US-09-280-501-15
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APPLICANT: Reid, Ian Reginald

Tilian
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APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jilian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERENCE: 08987-005001
CURRENT APPLICATION NUMBER: US/09/280,501
CURRENT FILING DATE: 1999-03-30
CURRENT FILING DATE: 1999-03-30
                                                                                                                                                                                                                                                                                                                             Sequence 1, Application US/09280501 Patent No. 6440421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
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SEQ ID NO 15
LENGTH: 13
TYPE: PRT
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Best Local (
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APPLICANT: Cornish, Jillian
APPLICANT: CORNISH, JILLIAN
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERENCE: 08987-005001
CURRENT APPLICATION NUMBER: US/09/280,501
CURRENT FILING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR PILING DATE: 1996-04-18
NUMBER OF SEQ ID NOS: 17
                                                                                       PRIOR APPLICATION NUMBER: 08/634,562
PRIOR FILING DATE: 1996-04-18
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FASTSEQ for Windows Version 4.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LENGTH: 13 amino acids
TYPE: amino acid
TOPOLOGY: linear
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100.0%; Pred. No. 0.0023;
n. Mismatches 0;
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Pred. No. 1.5e-06
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US-09-280-501-2
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US-09-280-501-2
                                   Query Match
Best Local S
Matches 10
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SOPTMARE: PRSESSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 27
TYPE: PRT
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APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jillian
TITLE OF INVENTION: APRENOMEDULIN OR ADRENOMEDULIN AGONISTS
FILE REPERENCE: 08987-005001
CURRENT FILING DATE: 199-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR PILING DATE: 1996-04-18
PRIOR FILING DATE: 1996-04-18
                                                                                                                                                                      NUMBER OF SEQ ID NOS: 17
SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 3
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Best Local Similarity 100
Matches 10; Conservative
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Best Local Similarity 100.0%;
Matches 10; Conservative
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                                                                                                                                                                                                                    APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jillian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERENCE: 08987-005001
CURRENT FILLING DATE: 1999-03-30
CURRENT FILLING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR FILING DATE: 1996-04-18
                                                                                                                    LENGTH: 28
TYPE: PRT
ORGANISM: Homo sapiens
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                                     10;
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                                                     Similarity
   HQIYQFTDKD 13
                                     Conservative
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100.0%; Pr
                                                     75.0%; Score 57; DB 4; 100.0%; Pred. No. 0.0053;
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; Pred. No. 0.0049;
0; Mismatches (
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Pred. No.
                                      Mismatches
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                                                                     Length 28;
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                                                                                                           US-09-070-504-23
                                                                                                                              RESULT 8
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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-280-501-4
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                                               Sequence 23, Application Patent No. 6268474
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 5
LENGTH: 30
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Patent No. 644042
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Patent No. 6440421
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                       Query Match 75.0%; Score 57; DB 4; Best Local Similarity 100.0%; Pred. No. 0.0057;
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Best Local Similarity
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TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERICE: 08987-005001
CURRENT APPLICATION NUMBER: US/09/280,501
CURRENT FILING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR FILING DATE: 1996-04-18
NUMBER OF SEQ ID NOS: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Reid, Ian Reginald
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jillian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADDENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERENCE: 08987-005001
CURRENT APPLICATION NUMBER: US/09/280,501
CURRENT FILING DATE: 1996-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR PILING DATE: 1996-04-18
NUMBER OF SEQ ID NOS: 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jillian
                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INFORMATION:
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                                                                                       Application US/09070504
Saha, Shankar
Abel, Peter W.
                                                                                                                                                                                                                                                        Conservative
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                                Smith, Derek D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         75.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                        0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 4; 1
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                                                                                                                                                                                                                                                        0; Indels
                                                                                                                                                                                                                                                                                           Length 30;
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                                                                                                                                                                                                                                                        0
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; LENGTH: 31 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-070-504-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-011-922A-3
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Patent No. 632002
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PILING SYSTEM: PC-DOS/MS-DOS
SOPTWARE: Patentin Release #1.0, V6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/070,504
PILING DATE: 30-APR-1998
CLASSIFICATION:
ATTORNEY/ACTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                       COUNTRY: USA.
ZIP: 10154-0053
ZIP: 10154-0053
COMPUTER READABLE FORM:
MEDIUM TYPE: Ploppy Disk
MEDIUM TYPE: IBM PC Compatible
TYPEN: IBM PC COMPATIBLE
TYPEN: MS WORD 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: 612/305-1220
TELEPAX: 612/305-1228
INFORMATION FOR SEQ ID NO: 1
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                  APPLICANT: Alfredo; Miller, Mae Je
APPLICANT: J.; Hook, William; Walk
APPLICANT: Karen; Macri, Charles
TITLE OF INVENTION: Punctional Rol
TITLE OF INVENTION: Adrenomedullin
TITLE OF INVENTION: Product (PAMP)
TITLE OF INVENTION: Physiology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSES: Meeting, Raasch & Gebhardt, P.A.
STREET: 119 No. 6268474th Fourth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATTORNEY/AGENT INFORMATION:
NAME: McCormack, Myra H
REGISTRATION NUMBER: 36,
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/011,922A
FILING DATE: 17-Feb-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: 18
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION:
                                                                                                                                                                                               STREET: 345 Par
CITY: New York
STATE: NY
                                                                                                                                                                                                                                                                           NUMBER OF SEQUENCES: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STATE: MN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CITY: Minneapolis
                                                                                                                                                                                                                                                             ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/09011922A
                                                                                                                                                                                                                                          345 Park Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                   Cuttitta, Frank; Martinez,
Alfredo; Miller, Mae Jean; Unsworth, Edward
J.; Hook, William; Walsh, Thomas; Grey,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        USA
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                                                                                                                                                                                                                                                           MORGAN & FINNEGAN, L.L.P.
                                                                                                                                                                                                                                                                                                                                   Functional Role of
Adrenomedullin (AM)
Product (PAMP) in Product
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       75.0%; Score 57; DB 3; Length 31; 100.0%; Pred. No. 0.0059;
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                                                                                                                                                                                                                                                                                                                                       (AM) and the Gene-Related in Human Pathology and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
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PRIOR APPLICATION DATA:

US/60/002,514

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RESULT 10
US-09-011-922A-14
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                                                                                COMPUTER READABLE FORM:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy Disk
COMPUTER: IBM PC Compatible
COMPUTER: IBM PC COMPATIBLE
COMPUTER: MS PC COMPATIBLE
COMPUTER: MS WORD 97
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
CURRENT APPLICATION NUMBER: US/09/011,922A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 14, Application US/09011922A Patent No. 6320022
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Cuttiti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: 3: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Cuttitta, Frank; Martinez,
APPLICANT: Alfredo; Miller, Mae Jean; Unsworth, Edward
APPLICANT: J.; Hook, William; Walsh, Thomas; Grey,
APPLICANT: Karen; Macri, Charles
TITLE OF INVENTION: Functional Role of
TITLE OF INVENTION: Adrenomedullin (AM) and the Gene-Re
TITLE OF INVENTION: Product (PAMP) in Human Pathology a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REGISTRATION NUMBER: 35,353
REFERENCE/DOCKET NUMBER: 202
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
TELEPAX: (212) 751-6849
                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORGAN & FINNEGAN, L.L.P.
STREET: 345 Park Avenue
              APPLICATION NUMBER: US/09/011,922,
FILING DATE: 17-Feb-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/60/002,514
FILING DATE: 18-Aug-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: PCT/U
APPLICATION NUMBER: 16-Aug-1996
ATTORNEY/AGENT INFORMATION:
NAME: Leslie A. Serunian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US/60/013,172 FILING DATE: 12-Mar-1996 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HYPOTHETICAL: NO FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 31 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                      COUNTRY: USA
ZIP: 10154-0053
                                                                                                                                                                                                                                                                                                  CITY: New York
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME/KEY: P072
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FILING DATE: 30-Aug-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: FILING DATE: 18-Aug
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                                                                                                                                                                                                                                                                                                                                                                              Product (PA
Physiology
: 17
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Pred. No. 0.0059;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2026-4202US3
                                                                                                                                                                                                                                                                                                                                                                                                                 (PAMP) in Human Pathology and
                                                                                                                                                                                                                                                                                                                                                                                                                                        (AM) and the Gene-Related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 31;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
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APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Reid, Ial Reginald
APPLICANT: Cornish, Jillian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERENCE: 08987-00501
CURRENT APPLICATION NUMBER: US/09/280,501
CURRENT FILING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR TILING DATE: 1996-04-18
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSEQ for Windows Version 4.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 100.0%;
Conservative
                                                                                                                                                                                         SEQ ID NO 9
LENGTH: 31
                                                                    Matches
                                                                                   Query Match 75.0%;
Best Local Similarity 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 9, Application US/09280501 Patent No. 6440421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE: (212) 758-48
TELEFAX: (212) 751-6849
INFORMATION FOR SEQ ID NO:
                                                                                                                                                   TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 16-Aug-1996
ATTORNEY/AGENT INFORMATION:
NAME: LeBlie A. Serunian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US/6
FILING DATE: 12-Mar-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER:
FILING DATE: 30-Aug-
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REGISTRATION NUMBER: 35,353
REFERENCE/DOCKET NUMBER: 2026-4202US3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 758-4800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LENGTH:
TYPE: a
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OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TOPOLOGY: linear
                                                                    10;
                     4 HQIYQFTDKD 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7 HQIYQFTDKD 16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               4 HQIYQFTDKD 13
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HQIYQFTDKD
                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .. peptide
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16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  75.0%; Score 57; DB 3; 100.0%; Pred. No. 0.0059;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Synthetic homolog of two-thirds of the intact AM peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PCT/US96/13286
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                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                    Score 57; DB 4;
Pred. No. 0.0059;
                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                      Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 31
                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                  Gaps
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RESULT 12 US-09-813-345C-23 ; Sequence 23, Application US/09813345C ; Patent No. 6756205 ; GENERAL INFORMATION:

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; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 38
; TYPE: PAT
; ORGANISM: Homo sapiens
US-09-280-501-6
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                                                                                                                                                                                            RESULT 14
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                                                                                                              Sequence 8, Application US/09280501
Patent No. 6440421
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SOPTWARE: PatentIn version 3.2
SEQ ID NO 23
LENGTH: 31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 6, Application US/09280501
Patent No. 6440421
        APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jillian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADDENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: 08987-005001
CURRENT APPLICATION NUMBER: US/09/280,501
CURRENT FILING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR FILING DATE: 1996-04-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Cooper, Garth James Smith
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jillian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADRENOMEDULLIN OR ADRENOMEDULLIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
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CURRENT APPLICATION NUMBER: US/09/813,345C
CURRENT FILING DATE: 2001-03-20
PRIOR APPLICATION NUMBER: 09/070,504
PRIOR FILING DATE: 1998-04-30
NUMBER OF SEQ ID NOS: 23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR SUPERFAMILY AND METHODS OF TITLE OF INVENTION: USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: CREIGHTON UNIVERSITY APPLICANT: SMITH, Derek D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURE: OTHER INFORMATION: Artificially Synthesized Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: PRT
REFERENCE: 08987-005001
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100.0%; Pred. No. 0.0073;
^ Mismatches 0;
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Search completed: January 5, 2005, 08:45:18 Job time : 11.0455 secs

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CURRENT APPLICATION NUMBER: US/09/280,501
CURRENT FILING DATE: 1999-03-30
PRIOR APPLICATION NUMBER: 098/634,562
PRIOR FILING DATE: 1996-04-18
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
LENGTH: 40
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 片
                                                                                                                                           ; ORGANISM: Homo sapiens US-09-280-501-11
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US-09-280-501-11
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US-09-280-501-8
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                                                                     Matches
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                                                                                        Best Local
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APPLICANT: Reid, Ian Reginald
APPLICANT: Reid, Ian Reginald
APPLICANT: Reid, Ian Reginald
APPLICANT: Cornish, Jilian
TITLE OF INVENTION: TREATMENT OF BONE DISORDERS WITH
TITLE OF INVENTION: ADDRENOMEDULLIN OR ADRENOMEDULLIN AGONISTS
FILE REFERENCE: 089897-005001
CURRENT APPLICATION NUMBER: US/09/280,501
CURRENT FILING DATE: 1996-03-30
PRIOR APPLICATION NUMBER: 08/634,562
PRIOR FILING DATE: 1996-04-18
NUMBER OF SEQ ID NOS: 17
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                                                                                                                                                                              LENGTH: 40
TYPE: PRT
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16 HQIYQFTDKD 25
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                                  4 HQIYQFTDKD 13
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                                                                     Conservative
                                                                                        100.0%;
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Result
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Maximum Match 100%
Listing first 45 sv
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Maximum DB seq length: 200000000
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              5577
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1: /cgn2=6/ptodata/2/pubpaa/US07 PUBCOMB.pep:*

2: /cgn2-6/ptodata/2/pubpaa/US06 NEW PUB.pep:*

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6: /cgn2-6/ptodata/2/pubpaa/US07 NEW PUB.pep:*

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14: /cgn2-6/ptodata/2/pubpaa/US10B_PUBCOMB.pep:*

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19: /cgn2-6/ptodata/2/pubpaa/US10B_PUB.pep:*

10: /cgn2-6/ptodata/2/pubpaa/US10B_PUB.pep:*
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20.344 Million cell updates/sec
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      9 US-09-931-700-2
9 US-09-931-700-3
9 US-09-931-700-14
9 US-09-913-345-23
1 US-09-813-345-14
1 US-10-150-101-74
6 US-10-474-635A-19
1 US-10-364-889-6
1 US-10-372-683-12
1 US-10-755-889-148
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Sequence 2, Appli
Sequence 3, Appli
Sequence 14, Appl
Sequence 23, Appl
Sequence 15, Appl
Sequence 14, Appl
Sequence 74, Appl
Sequence 74, Appl
Sequence 19, Appl
Sequence 19, Appl
Sequence 12, Appl
Sequence 17, Appli
Sequence 17, Appli
Sequence 17, Appli
Sequence 17, Appli
Sequence 18, Appli
Sequence 18, Appli
                                                                                                                                                                                                                                                                                                 Description
                 GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: MARTINEZ, ALFREDO
APPLICANT: MILLER, MAE JEAN
APPLICANT: MILLER, MAE JEAN
APPLICANT: UNSWORTH, EDWARD J.
APPLICANT: WALSH, THOMAS
APPLICANT: WALSH, THOMAS
APPLICANT: MALSH, THOMAS
CURRENT FILLE OF INVENTION: PUNCTIONAL ROLE OF Adrenomedullin (AM) and the
TITLE OF INVENTION: PUNCTIONAL ROLE OF Adrenomedullin (AM) and the
TITLE OF INVENTION: PUNCTIONAL ROLE OF Adrenomedullin (AM) and the
TITLE OF INVENTION: PUNCTIONAL ROLE OF Adrenomedullin (AM) and the
TITLE OF INVENTION: PUNCTIONAL ROLE OF Adrenomedullin (AM) and the
TITLE OF INVENTION UNMBER: US/09/931,700
CURRENT FILING DATE: 1926-642011,922
PRIOR APPLICATION NUMBER: US/09/931,700
PRIOR APPLICATION NUMBER: US/09/013,172
PRIOR APPLIC
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Patent No. US20020055615A1
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US-10-424-599-207877

0 US-09-953-348-116

4 US-10-267-255-116

4 US-10-267-2000-2

US-10-315-977-8008

5 US-10-325-977-8008

10S-10-369-493-16679

4 US-10-369-493-16679

4 US-10-369-493-1699

0 US-10-767-701-59336

7 US-10-425-115-230182

US-10-364-213-147

US-10-425-115-2300

1 US-10-425-115-3629

1 US-10-425-115-3629

1 US-10-335-977-7714

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Sequence 147, App
Sequence 5230, Ap
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Sequence 137236,

Sequence 254064,

Sequence 345298,

Sequence 7714, Ap

Sequence 7715, Ap

Sequence 367230, A

Sequence 367230, A

Sequence 108953,

Sequence 229257,

Sequence 275151,

Sequence 115492,
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Sequence 116, Appl
Sequence 2, Appli
Sequence 8087, Ap
Sequence 8088, Ap
Sequence 211456,
Sequence 18979, A
Sequence 59836, A
Sequence 59836, A
Sequence 538182,
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2188, Ap
86, Appl
253952,
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APPLICANT: WALSH, THOMAS

APPLICANT: GREY, KAREN

APPLICANT: GREY, KAREN

APPLICANT: GREY, KAREN

APPLICANT: MACRI, CHARLES

ITITLE OF INVENTION: Functional Role of Adrenomedullin (AM) and the

TITLE OF INVENTION: Gene-Related Product (PAMP) in Human Pathology and

ITITLE OF INVENTION: Physiology

FILE REFERENCE: 2026-4202US4

CURRENT APPLICATION NUMBER: US/09/931,700

CURRENT FILING DATE: 1998-02-16

PRIOR APPLICATION NUMBER: D9/011,922

PRIOR APPLICATION NUMBER: PCT/US96/13286

PRIOR APPLICATION NUMBER: US/60/013,172

PRIOR PILING DATE: 1995-08-18

PRIOR APPLICATION NUMBER: US/60/002,514

PRIOR PILING DATE: 1995-08-18

**MTMATER OF SEA TO MOMBER: US/60/002,514
                 Sequence 14, Application US/09931700
Patent No. US20020055615A1
GENERAL INFORMATION:
APPLICANT: CUTTITTA, FRANK
APPLICANT: MARTINEZ, ALFREDO
APPLICANT: MILLER, MAE JEAN
APPLICANT: UNSWORTH, EDWARD J.
APPLICANT: HOOK, WILLIAM
APPLICANT: HOOK, WILLIAM
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                                                                                                                                                                                                                         US-09-931-700-14
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Best Local S
Matches 13
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SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 3
LENGTH: 31
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APPLICANT: MARTINEZ, ALFR
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  APPLICANT:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OTHER INFORMATION: Description of Artificial Sequence: Peptide, P072, OTHER INFORMATION: PreproAM (amino acids 116-146)
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                                                                                                                                                                                                                                                                                                                       HQIYQFTDKD 16
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MILLER, MAE JEAN
UNSWORTH, EDWARD J.
WALSH, THOMAS
                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                         75.0%; Score 57; DB 9; Length 31; 100.0%; Pred. No. 0.021;
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TITLE OF INVENTION: CHARLES
TITLE OF INVENTION: Gene-Related Product (PAMP) in Human Pathology and TITLE OF INVENTION: Gene-Related Product (PAMP) in Human Pathology and TITLE OF INVENTION: Physiology
FILE REFERENCE: 2026-4202US4
CURRENT APPLICATION NUMBER: US/09/931,700
CURRENT FILING DATE: 2001-08-16
PRIOR APPLICATION NUMBER: 09/011,922
PRIOR TILING DATE: 1998-02-17
PRIOR APPLICATION NUMBER: PCT/US96/13286
PRIOR FILING DATE: 1998-03-16
PRIOR PILING DATE: 1996-03-16
PRIOR PILING DATE: 1996-03-12
PRIOR PILING DATE: 1996-03-12
PRIOR PILING DATE: 1996-03-12
PRIOR PILING DATE: 1995-08-30
PRIOR PILING DATE: 1995-08-30
PRIOR PILING DATE: 1995-08-18
NUMBER: US/60/002,514
PRIOR FILING DATE: 1995-08-18
NUMBER: US/07-03-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; OTHER INFORMATION: Description of Artificial Sequence: Peptide, OTHER INFORMATION: Synthetic homolog of AM (P072), Structural a ; OTHER INFORMATION: acid sequence representing two-thirds of the ; OTHER INFORMATION: intact AM peptide US-09-931-700-14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ś
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US-09-813-345-23
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LENGTH: 31
TYPE: PRT
ORGANISM: Artificial Sequence
PEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patent No. US20020068814A1
GENERAL INFORMATION:
APPLICANT: Smith, D
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Best Local S
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COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1
CURRENT APPLICATION DATA:
APPLICATION UNMBER: US/09/813,345
FILING DATE: 20-Mar-2001
CLASSIFICATION: CURKNOWN>
ATTORNEY/AGENT INFORMATION:
NAME: MCCOTMack, Myra H
REGISTRATION NUMBER: 36,602
REFERENCE/DOCKET NUMBER: 180.00020101
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                              ZIP: 55401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Mueting, Raasch & Gebhardt, P.A.
STREET: 119 No. US20020068814A1th Fourth Street
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANA: SHAPE SABA, Shapkar
Saba, Shapkar
Abel, Peter W.
TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR
SUPERFAMILY AND METHODS OF USE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                         STATE: MN
COUNTRY: L
                                                                                                                                                                                                                                                                                                                                                                                                  CITY: Minneapolis
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MACRI, CHARLES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Application US/09813345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Smith, Derek D.
                                                                                                                                                                                                                                                                                                                                                       USA
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Pred. No.
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0.021;
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MOLECULE TYPE: peptide
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SEQUENCE DESCRIPTION: SEQ ID NO: 15:
US-09-813-345-15
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                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                      TELEPHONE: 612/305-1220
TELEPAX: 612/305-1228
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 amino acids
TYPE: amino acid
STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 15, Application US/09813345
Patent No. US20020068314A1
GENERAL INFORMATION:
APPLICANT: Smith, Derek D.
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Best Local (
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/813,345
FILING DATE: 20-Mar-2001
CLASSIFICATION: «UDATION")
ATTORNEY/AGENT INFORMATION:
NAME: MCCOrmack, Myra H
REGISTRATION NUMBER: 36,602
REFERENCE/DOCKET NUMBER: 180.0002010
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      79.0%; Score 57; DB 9; Length 31; Local Similarity 100.0%; Pred. No. 0.021; hes 10; Conservative 0; Miamarahan
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MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Mueting, Raasch & Gebhardt, P.A.
STREET: 119 No. US20020068814A1th Fourth Street
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MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 23:
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26 HQIYQPTDKD 35
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        4 HQIYQFTDKD 13
                                    4 HQIYQFTDKD 13
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                                                                        Conservative
                                                                                          75.0%;
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                                                                        Score 57; DB 9; ; Pred. No. 0.035; 0; Mismatches
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                                                                                                            Length 50;
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GENERAL INFORMATION:

APPLICANT: K'ster, Hubert

APPLICANT: Siddiqi, Suhaib

APPLICANT: Siddiqi, Suhaib

APPLICANT: Little, Daniel

TITLE OF INVENTION: Capture Compounds, Colle

TITLE OF INVENTION: Compositions

FILE REFERENCE: 24743-2305

CURRENT APPLICATION NUMBER: US/10/197,954

CURRENT FILING DATE: 2007-016

PRIOR APPLICATION NUMBER: 60/306,019

PRIOR APPLICATION NUMBER: 60/314,123

PRIOR APPLICATION NUMBER: 60/314,123

PRIOR APPLICATION NUMBER: 60/363,433

PRIOR APPLICATION NUMBER: 60/363,433

PRIOR FILING DATE: 2002-03-11
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Patent No. US20020068814A1
GENERAL INFORMATION:
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INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 52 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IEM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/813,345
FILING DATE: 20-Mar-2001
CLASSIFICATION: -Unknown>
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
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COMPUTER READABLE FORM:
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CORRESPONDENCE ADDRESS:
ADDRESSEE Weeting, Raasch & Gebhardt, P.A.
STREET: 119 No. US20020068814A1th Fourth Street
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TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR SUPERFAMILY AND METHODS OF USE
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REGISTRATION NUMBER: 36,602
REFERENCE/DOCKET NUMBER: 180.00020101
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STATE: MN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
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Analyzing The Proteom
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US-10-360-101-74
; Sequence 74, Application US/10360101
; Publication No. US20040009550A1
                                                                                         ; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-474-635A-19
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                                                                                                                                                                                                                                                                                                                                                                                          US-10-474-635A-19
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                                                                                                                                          NUMBER OF SEQ ID NOS: 22
SOFTWARE: PatentIn versic
SEQ ID NO 19
LENGTH: 52
                                                                                                                                                                                                                                                                                                                                     Sequence 19, Application US/10474635A Publication No. US20040176567A1 GENERAL INFORMATION:
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Best Local Similarity 100.0%;
                     Matches
                                  Query Match
Best Local Similarity
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                                                                                                                                                                                                             FILE REFERENCE: 480821.00004
CURRENT APPLICATION NUMBER: US/10/474,635A
CURRENT FILING DATE: 2003-10-14
PRIOR APPLICATION NUMBER: GB 0109438.2
PRIOR FILING DATE: 2001-04-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Moll, Gert N.
APPLICANT: Leenhouts, Cornelis J.
APPLICANT: Leenhouts, Cornelis J.
TITLE OP INVENTION: EXport and modification of (poly)peptide in the lantibiotic way
FILE REFERENCE: 2183-5673
CURRENT FALLICATION NUMBER: US/10/360,101
CURRENT FILING DATE: 2003-02-07
PRIOR APPLICATION NUMBER: EP 02077060.8
PRIOR APPLICATION NUMBER: EP 02077060.8
NUMBER OF SEQ ID NOS: 309
NUMBER OF SEQ ID NOS: 309
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 149
SOFTWARE: FastSEQ for Windows Version 4.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORGANISM: Artificial Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH: 52
TYPE: PRT
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                     10;
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                                                                                                                                                                              PatentIn version 3.1
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                     Conservative
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                75.0%; Score 57; DB 16; Length 52; 100.0%; Pred. No. 0.036; tive 0; Mismatches 0; Indels
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Pred. No. 0.036;
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Pred. No. 0.036;
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US-10-675-406A-7
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                Sequence 7, Application US/10675406A Publication No. US20040121375A1 GENERAL INFORMATION:
APPLICANT: Bayer Pharmaceuticals Corporation
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APPLICANT: GERRITSEN, MARY E.

APPLICANT: PEALE JR., FRANKLIN V.

APPLICANT: WI, THOMAS D.

ITILE OF INVENTION: METHODS FOR THE TREATMENT OF CARCINOMA FILE REFERENCE: P1928R1P1

CURRENT APPLICATION NUMBER: US/10/372,683

CURRENT FILING DATE: 2003-02-21

PRIOR APPLICATION NUMBER: US 10/271,690

PRIOR APPLICATION NUMBER: US 60/344,534

PRIOR FILING DATE: 2001-10-18

1 DNO 12

1 ENOTH: 185
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; ORGANISM: Homo sapiens
US-10-364-889-6
                                                                                                                                                                    ; TYPE: PRT
; ORGANISM: Homo sapien
US-10-372-683-12
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US-10-364-889-6
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Matches
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                                                                                                                            Query Match
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Best Local Similarity
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CURRENT FILING DATE: 2003-02-12
PRIOR APPLICATION NUMBER: 60/356,376
PRIOR FILING DATE: 2002-02-12
NUMBER OF SEQ ID NOS: 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Pahel, Gregory L.
APPLICANT: Quinn, Kerry
TITLE OF INVENTION: Compositions and Methods for Treatment of Osteoarthritis
FILE REFERENCE: 21402-558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LENGTH: 185
                                                                                Match 75.0%; Score 57; DB 15; Length 185; Local Similarity 100.0%; Pred. No. 0.14; les 10; Conservative 0; Mismatches 0; Indels
122 HQIYQFTDKD 131
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100.0%; Pred. No.
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Eveleigh, Deepa

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NUMBER OF SEQ ID NOS: 7
SOFTWARE: PatentIn version 3.2
SEQ ID NO 7
LENGTH: 185
TYPE: PRT
ORGANISM: Homo sapiens
US-10-675-406A-7
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US-10-755-889-148
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Best Local Similarity
Matches 10; Conserva
                                                                                                                                                                                                                                                                                                     RESULT 14
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US-10-755-889-148
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SEQ ID NO 148
LENGTH: 185
                                                                                                                                                     Sequence 194068, Application US/10425115
Publication No. US20040214272A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
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Publication No. US20040171823A1

GENERAL INFORMATION:

APPLICANT: Bristol-Myers Squibb Company
TITLE OF INVENTION: POLYNUCLEOTIDES AND
TITLE OF INVENTION: PATHWAY
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE CRINVENTION: Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(53222)B
CURRENT APPLICATION NUMBER: US/10/425,115
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 369326
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION NUMBER: US/10/755,889
CURRENT FILING DATE: 2004-01-13
PRIOR APPLICATION NUMBER: U.S. 60/440,068
PRIOR FILING DATE: 2003-01-14
PRIOR APPLICATION NUMBER: U.S. 60/469,757
PRIOR FILING DATE: 2003-05-12
NUMBER OF SEQ ID NOS: 823
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TITLE OF INVENTION: METHODS FOR PREDICTION AND PROGNOSIS OF CANCER, AND MONITORING
TITLE OF INVENTION: CANCER THERAPY
FILE REFERENCE: 5138
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FILE REFERENCE: DO284 NP
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ilarity 100.0%;
Conservative (
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ORGANISM: Zea mays
FEATURE:
NAME/KEY: unsure
LOCATION: (1)..(117)
OTHER INFORMATION: unsure at all Xaa locations
FEATURE:
OTHER INFORMATION: Clone ID: MRT4577_108570C.1.
US-10-425-115-194068
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Search completed: January Job time: 229.864 secs
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US-10-424-599-207877
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                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Zhou Yihua
APPLICANT: Cao Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21 (53223)B
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 207877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GENERAL INFORMATION:
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                                                                                                                                                 Matches
                                                                                                                                                                Query Match 57.9%;
Best Local Similarity 53.8%;
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APPLICANT: Kovalic David K
                                                                                                                                                                                                                                                                           LENGTH: 157
TYPE: PRT
ORGANISM: Glycine max
FEATURE:
FEATURE:
LOCATION: (1)..(157)
OTHER INFORMATION: unsure at all Xaa locations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: PRT
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Local Similarity 63.6%;
hes 7; Conservative
                                                                     103 YGEHNVYQAREKD 115
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Result
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Maximum DB
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  Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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seq length: 2000000000
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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Maximum Match 100%
Listing first 45 summaries
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ROM2 protein - yea
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ORF MSV241 leucine
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histidine-tRNA lig
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C;Date: 03-Feb-1994 #text_change 09-Jul-2004
C;Accession: JC2351; JN0684; FN0548; JN0476
R;Ishinitsu, T; Kojima, M; Kangawa, K; Hino, J; Matsuoka, H; Kitamura, Biochem. Biophys. Res. Commun. 203, 631-639, 1994
A;Title: Genomic Structure of human adrenomedullin gene.
A;Reference number: JC2351; MUID:94354869; PMID:8074714
A;Accession: JC2351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Molecule type: DNA
A;Residues: 1-185 <ISH>
A;Residues: 1-185 <ISH>
A;Residues: 1-185 <ISH>
A;Residues: DNIPROT:P35318; GB:S73906; NID:g765329; PIDN:AAC60642.1; PID:g76533
A;Experimental source: pheochromocytoma
A;Experimental source: pheochromocytoma
A;Kitamura, K.; Sakata, L.; Kangawa, K.; Kojima, M.; Matsuo, H.; Eto, T.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Kitamura, K.; Sakata, L.; Kangawa, K.; Kojima, M.; Matsuo, H.; Eto, T. Biochem. Biophys. Best Commun. 194, 720-725, 1993
A;Title: Cloning and characterization of cDNA encoding a precursor for human adrenomedu A;Reference number: JN0684; MUID:93343928; PMID:7688224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         adrenomedullin precursor -
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hypothetical prote	T29832	N	285	48.7	37	45
imidazoleglycerol-	E82238	N	257	48.7	37	44
sugar phosphate nu	F90507	Ŋ	253	48.7	37	43
oxidoreductase ypi	B86817	N	250	48.7	37	42
rfbT protein VC025	H82344	N	227	48.7	37	41
probable lipoprote	AG0539	N	164	48.7	37	40
hypothetical prote	T26838	N	105	48.7	37	39
alpha-amylase (EC	JS0101	N	569	49.3	37.5	38
dextranase - Strep	T30291	N	1337	50.0	38	37
hypothetical prote	E84534	N	952	50.0	38	36
hypothetical prote	H98032	N	586	50.0	38	35
ABC transporter, A	A95167	N	586	50.0	38	34
pepT protein - Sta	858356	N	571	50.0	38	S S
pectate lyase rela	A96999		564	50.0	38	32
protein kinase, ca	T14335	N	532	50.0	38	31
protein kinase, ca	S17759	N	425	50.0	38	30

ALIGNMENTS

human

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Eto,

H

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A;Gross-references: GDB:217070; OMIM:103275
A;Map position: lipter-liqter
A;Map position: lipter-liqter
A;Introns: 33/2; 83/2
A;Introns: 33/2; 83/2
C;Keywords: amidated carboxyl end; blood pressure control; hormone
F;1-21/Domain: signal sequence #status predicted <PEU>
F;22-185/Product: proadrenomedullin #status predicted <PEU>
F;22-41/Domain: proadrenomedullin amino-terminal 20 peptide #status predicted <PAP>
F;95-146/Product: adrenomedullin #status experimental <MAT>
F;147-185/Domain: carboxyl-terminal propeptide #status predicted <CTP>
F;141/Modified site: amidated carboxyl end (Arg) (amide in mature form from following F;110-115/Disulfide bonds: #status experimental F;146/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following F;146/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following F;146/Modified site: amidated carboxyl end (Tyr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Molecule type: protein
A;Residues: 22-41 <KI2>
R;Kitamura, K.; Kangawa, K.; Kawamoto,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Accession: JN0684
A;Molecule type: mRNA
A;Residues: 1-185 <KIT>
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A;Residues: 95-146 <KI3>
A;Experimental source: pheochromocytoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Reference number: JN0476; A; Accession: JN0476
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Biochem. Biophys. Res. Commun. 192, 553-560, 1993
A;Title: Adrenomedullin: A novel hypotensive peptide isolated from human pheochromocytor A;Reference number: JN0476; MUID:93249425; PMID:8387282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Accession: PN0548
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Gene: GDB:ADM
         Best Loc
Matches
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                                                                     Query Match
         Local Similarity
les 10; Conserv
            Conservative
75.0%; bu
100.0%; Pr
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         Score 57; DB
; Pred. No. 0.0
0; Mismatches
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                                     DB 2;
0.016;
                                                                 Length 185
            Indels
            0;
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            Gaps
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hypothetical protein - Symechocystis
C;Species: Symechocystis sp.
A;Variety: PCC 6803
C;Date: 25-Apr-1997 #sequence_revisio
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A;Title: Complete amino acid sequence of porcine adrenomedullin A;Reference number: $41600; MUID:94139945; PMID:8043068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Species: Sus so
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F;1-21/Domain: signal sequence #status predicted <SIG>
F;22-185/Product: proadrenomedullin #status predicted <PEU>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Sakata, J.; Shimokubo, T.; Kitamura, K.; Nakamura, S.; Kangawa, K.; Matsuo, H.; Eto, 'Biochem. Biophys. Res. Commun. 195, 921-927, 1993
A;Title: Molecular cloning and biological activities of rat adrenomedullin, a hypotensi. A;Reference number: JN0766; MUID:93384621; PMID:7690563
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                                                                                                        RESULT 4
                                                                                                                                                                                                                                                                                                                                 A;Cross-references: UNIPROT:P53366; GB:D14875; NID:g439721; PIDN:BAA03590.1;
                                                                                                                                                                                                                                                                                                                                                                                                A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                    A; Accession: S41600
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A; Residues: 1-185 < SAK>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Accession: JN0766
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               arenomedullin - pig
;Species: Sus scrofa domestica (domestic pig)
;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change
;Accession: $41600
                                                                                                                                                                                                                                                                                                                                                        Residues:
                                                                                                                                                                                                                                                                                                                                                                           Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;41/Modified site: amidated carboxyl end (Arg) (;143/Modified site: amidated carboxyl end (Tyr)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;Cross-references: UNIPROT:P43145;Accession: PN0610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;Species: Rattus norvegicus (Norway rat);Date: 30-Sep-1993 #sequence_revision 20;Accession: JN0766; PN0610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local
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  25-Apr-1997 #sequence_revision
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10; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kangawa, K.; Kojima, M.; Ichiki, Y.; Matsuo, H.; 306-310, 1994
                                                                                                                                                                                                                                                    Conservative
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%; Pred. No. 0.0
0; Mismatches
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25-Apr-1997 #text_change 09-Jul-2004
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                                                                 (strain
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                                                                 6803)
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  C;Species: Helicobacte
A;Variety: strain J99
C;Date: 12-Feb-1999 #s
C;Accession: D71870
                                                           hypothetical protein jhp0928 -
C;Species: Helicobacter pylori
                                                                                                      D71870
                                                                                                                           RESULT 6
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hypothetical protein At2903240 [imported] - Arabidopsis thaliana N,Alternate names: hypothetical protein T18E12.9 C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 24-Mar-1999 #sequence_revision 24-Mar-1999 #text_change 09-Ju C;Date: 24-Mar-1999 #sequence_revision 24-Mar-1999 #text_change 09-Ju C;Accession: T02702; A84446 R;Rounsley, S.D.; Lin, X.; Kaul, S.; Shea, T.P.; Fujii, C.Y.; Mason, submitted to the EMBL Data Library, September 1998 A;Description: Arabidopsis thaliana chromosome II BAC T18E12 genomic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Accession: S76069
R;Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, B.; Nakamura, Y.; Miyajima, N., R;Kaneko, T.; Sato, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasuda DNA Res. 3, 109-136, 1996
A;Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis
                                                                        S
                                                                                                                                                                                                                                                                                                                             A;Map position: 2
A;Introns: 219/1; 340/2; 387/1; 417/2; 503/3; 538/3; 603/3; 698/3; 744/2
A;Note: T18E12.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: DNA
A; Residues: 1-776 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.; M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.B.; Umayam, L.; Tallon, L. euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, Nature, Na
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A; Accession: S76069
A; Status: preliminary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:O81050; EMBL:AC005313; NID:g3548797; PID:g3548806
A;Experimental source: cultivar Columbia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: DNA
A; Residues: 1-776 < ROU>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Molecule type: DNA
A; Residues: 1-643 < K
                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Gene: At 2g03240
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Accession: A84446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nature 402, 761-768, 1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Accession: T02702
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                                                                                                                                                                       Matches
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                                                                                 2 GGHQIYQFTDKD 13
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8; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GB:AE002093; NID:g3548806; PIDN:AAC34478.1;
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72.7%;
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                                                                                                                                                                   7.
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Pred. No.
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#sequence_revision

12-Feb-1999

#text_change

09-Jul-2004

Helicobacter

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C;Accession: H70089

C;Accession: H70089

C;Accession: F; Ogasawara, N.; Moszer, I.; Albertini, A.M.; Alloni, G.; Azevedo, V.; Berter C.; Bron, S.; Brouhllet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Chc A.; Ehrlich, S.D.; Emmerson, P.T.; Entian, K.D.; Exrington, J.; Fabret, C.; Ferrari, E. Nature 390, 249-256, 1997

A;Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galler iech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F. Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois, K.; Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Maueel Y, M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Fark, S.H.; Parro, V.; Pohl, T.M.; Portetelle Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon, A; Costoni, A.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Seror akeuchi, M.; Tamaka, T.; Teraba, T.; Togato, V.; Uchiyama, T.; Winters, P.; Wipat, A.; Yamamoto, H.; Yamane, K.; Yasumoto, K.; Yata, K.; Yoshida, K.; Ajuthors: Yoshikawa, H.F.; Zumstein, E.; Yoshikawa, H.; Danchin, A.
A; Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis. A; Accession: H7089
A; Accession: H7089
A; Accession: H7089
                                                                                                                                                                                                         RESULT 8
A87544
R;Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Koln, J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.
                                                                                  hypothetical protein CC3378 [imported] - Caulobacter crescentus c;Species: Caulobacter crescentus c;Species: Caulobacter crescentus C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 09-Jul-2004 C;Accession: A87544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references: UNIPROT:Q45612; GB:Z99124; GB:AL009126; NID:g2636442; PIDN:CAB16075
A;Experimental source: strain 168
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A; Residues: 1-280 < KUN>
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C;Species: Bacillus subtilis
C;Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
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C,Genetics:
A,Gene: jhp0928
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A;Residues: 1-2231 <ARN>
A;Cross-references: UNIPROT:Q9ZKK7; GB:AE001522; GB:AE001439; NID:g4155505;
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A;Reference number: A71800; MUID:99120557; PMID:9923682
A;Accession: D71870
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8; Conser
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72.7%;
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Pred. No. 43;
2; Mismatches
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Pred. No. 11;
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A;Residues: 1-563 <BEV>
A;Residues: 1-563 <BEV>
A;Cross-references: UNIPROT:Q9SV96; EMBL:AL078620; GSPDB:GN00062; ATSP:F23K16.250
A;Cross-references: UNIPROT:Q9SV96; EMBL:AL078620; GSPDB:GN00062; ATSP:F23K16.250
A;Experimental source: cultivar Columbia; BAC clone F23K16
R;Bevan, M.; Monfort, A.; Casacuberta, E.; Puigdomenech, P.; Hoheisel, J.; Mewes, submitted to the Protein Sequence Database, April 1998
a;Reference number: Z15394
                                                                                                                                                                                                                                                                                                                                                                                    C;Accession: T09378; T04999
R;Bevan, M.; Murphy, G.; Ridley, P.; Hudson, S.; Bancroft, submitted to the Protein Sequence Database, June 1999
A;Reference number: Z16652
A;Accession: T09378
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R;Thomas, K.
submitted to the EMBL Data Library,
A;Reference number: Z19375
A;Accession: T21106
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C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
   A; Experimental source: cultivar C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          hypothetical protein F23K16.250 - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
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A;Experimental source: clone F1986
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A; Residues: 1-350 <WIL>
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A; Title: Complete Genome Sequence of Caulobacter crescentus.
                                                             A; Cross-references: EMBL: AL022605
                                                                                           A;Molecule type: DNA
A;Residues: 444-563 <BE2>
                                                                                                                                                  A; Accession: T04999
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Best Local
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Best Local :
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                                 Columbia;
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Pred. No.
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ed. No. 12;
Mismatches
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H.W.;

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C;Species: Caenorhabditis ele
C;Date: 15-Oct-1999 #sequence
C;Accession: T21690
R;Matthews, L
submitted to the EMBL Data L
A;Reference number: Z19459
A;Accession: T21690
RESULT 13
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A;Introns: 29/3; 159/2; 212/3; 243/3; 266/3; 365/3
C;Superfamily: Caenorhabditis elegans hypothetical
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C86705
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                                                                                                                                                                                                                                                                                          A;Status: preliminary; translated A;Molecule type: DNA A;Residues: 1-467 <WIL>
                                                                                                                                                                                                                                                                                                                                                                                                                 hypothetical protein F33A8.4 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #t. C;Date: 15-Oct-1999 #t.
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T21690
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A;Experimental source: strain IL1403
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A;Reference number: A86625; MUID:21235186; PMID:11337471
A;Accession: C86705
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A;Map position: 4
A;Introns: 118/3; 502/3
A;Note: T19P19.10
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A; Residues: 1-185 < STO>
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R;Bolotin, A.; Wincker, P.; Mauger, S.; Jaillon, O.; Malarme, K.; Weissenbach,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hypothetical protein ygdA [imported] - Lactococcus lactis subsp. C; species: Lactococcus lactis subsp. lactis
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                                                                                                                                 Query Match
Best Local :
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Best Local :
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Pred. No.
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Pred. No.
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Pred. No. 22;
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probable type II restriction enzyme - Helicobacter pylori (strain J99) (;Species: Helicobacter pylori
A;Variety: strain J99
A;Variety: strain J99
C;Date: 12-Feb-1999 #sequence_revision 12-Feb-1999 #text_change 09-Jul-2004
C;Accession: H71979
R;Alm, R.A.; Ling, L.S.L.; Moir, D.T.; King, B.L.; Brown, E.D.; Doig, P.C.;
; Ives, C.; Gibson, R.; Merberg, D.; Mills, S.D.; Jiang, Q.; Taylor, D.E.;
Nature 397, 176-180, 1999
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G83445
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A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus.
A;Reference number: A89758; MUID:21311952; PMID:11418146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C;Accession: G83445
R;Stover, C.K.; Pham, X.Q.; Brwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig,
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Nature 406, 959-964, 2000
A; Title: Complete genome E
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A;Molecule type: DNA
A;Residues: 1-514 <KUR>
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C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
C;Date: 10-May-775
C;Accession: D89775
R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.;
A;Reference number: A71800; MÜID:99120557; PMID:9923682
A;Accession: H71979
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-146 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       conserved hypothetical protein PA1607 [imported] - Pseudomonas aeruginosa (strain PAO1)
C;Species: Pseudomonas aeruginosa
C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004
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                                                 A; Title: Genomic sequence comparison of two unrelated isolates of the human gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Gene: PA1607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Experimental source:
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Matches 8; Conserv
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50; MUID:20437337; PMID:10984043
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A. Microse-reference: UNIPPOOT:092N14; GB:AE001444; GB:AE001439; NID:g4154549; PIDN:AAD0562

A. Microse-reference: UNIPPOOT:092N14; GB:AE001444; GB:AE001439; NID:g4154549; PIDN:AAD0562

A. Microse-reference: UNIPPOOT:092N14; GB:AE001444; GB:AE001439; NID:g4154549; PIDN:AAD0562

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A. Microse-reference: UNIPPOOT:092N14; GB:AE001444; GB:AE001444; GB:AE001439; NID:g4154549; NID:g415454
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P97297 mus musculu
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O81050 arabidopsis
Aar99487 arabidopsis
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P53366 sus scrofa
O62827 bos taurus
O77559 canis famil
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P35318 homo sapien
P43145 rattus norv
Aap35548 homo sapi
   Q9x5r9
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01-FEB-1994 (Rel. 28, Last sequence update)
05-JUL-2004 (Rel. 44, Last amnocation update)
05-JUL-2004 (Rel. 44, Last amnocation update)
ADM precursor [Contains: Adrenomedullin (AM); Pro
terminal peptide (ProAM-N20) (ProAM N-terminal 20
Name=ADM; Synonyms=AM;
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrat
Mammalia; Eutheria; Primates; Catarrhini; Hominid
NCBI TaxID=9606;
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HUMAN
ADML HUMAN
P35318;
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01-MAY-2000
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GO; GO: 0005179; F: hormone activity; IEA.
InterPro; IPR001710; Adrenomedullin.
Pfam; PP02039; Adrenomedullin; I.
PRINTS; PR00801; ADRENOMEDULN.
SEQUENCE 27 AA; 3063 MW; BBDC7FA18D8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.

MEDLINE=96157714; PubMed=8576091;
IChiki Y., Kitamura K., Kangawa K., Kawamoto M., Matsuo H., Eto T.;
IChiki Y., Kitamura K., Kangawa K., Kawamoto M., Matsuo H., Eto T.;
"Distribution and characterization of immunoreactive adrenomedullin porcine tissue, and—1601ation of adrenomedullin [26-52] and adrenomedullin-[34-52] from porcine duodenum.";

J. Biochem. 118:765-770(1953).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-JUN-2003 (Trem
ADRENOMEDULLIN.
Sus scrofa (Pig).
SEQUENCE FROM N.A.
TISSUE=Pheochromocytoma;
MEDLINE=93343928; PubMed=7688224;
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Mammalia; Eutheria;
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(TrEMBLrel. 24, Last annotation updat
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Q19582
Q9SV96
Q9UTT2
Q9UTT3
Q9CHS8
Q7V1T4
Q7V9F6
Q7N9F6
Q7VS57
Q68214
Q7US57
Q6GCY0
Q6GKG1
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                                                                                         Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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1 20 peptide) (PAMP)].
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RX MEDLINE=2238257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RX Strausberg R.L., Feingold B.A., Grouse L.H., Derge J.G.,
RX Strausberg R.D., Collins F.S., Wagner I.H., Shenmen C.M., Schuler G.D.,
RX Alteschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RX Alteschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RX Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RX Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RX Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RX Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RX Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RX Raha S.S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RX Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,
RX Richards S., Worley K.C., Hale S., Garcia A.M., Gibbs R.A.,
RX Raphey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RX Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RX RA Haleschey R.W., Touchman J.W., Green B.D., Dickson M.C.,
RX ROMATIGUEZ A.C., Grimwood J., Schmutz J., Myers R.M.,
RX Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RX "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA secuences."

"Generation and initial analysis of more than 15,000 full-length human
                                                                                                                             Biochem.
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDULING K., Kang
Kitamura K., Kang
H., Eto T.
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Biochem "1-"
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"Cloning and char
adrenomedullin.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Proadrenomedullin-derived peptides."; Front. Neuroendocrinol. 19:100-127(1998)
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SUBCELLULAR LOCATION: Secreted.
TISSUE SPECIFICITY: Highest lev-
adrenal medulla. Also found in:
SIMILARITY: Belongs to the adre
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c. Natl. Acad. Sci. U.S.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kangawa K.,
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    the adrenomedullin
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                                              levels found in pheochromocytoma and in lung, ventricle and kidney tissue
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EMBL; S73906; AAC60642.1; -.
EMBL; BC015961; AAH15961.1; -.
EMBL; BC015961; BAA07756.1; ALT_
PIR; JC2351; JN0684.
Genew; HGNC:259; ADM.
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P43145;
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Matsuo H.,
                             SEQUENCE FROM N.A.
STRAIN-Sprague-Dawley; TISSUE-Adrenal gland;
MEDLINE-93384621; PubMed-7690563;
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PROPEP
PEPTIDE
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Amidation;
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Mammalia; Eutheria;
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50; GO:0005625; C:soluble fraction; TAS.
50; GO:0005102; F:receptor binding; TAS.
50; GO:006171; P:cAMP biosynthesis; TAS.
50; GO:0006171; P:cell-cell signaling; TAS.
50; GO:0007267; P:cell-cell signaling; TAS.
50; GO:0008015; P:circulation; TAS.
50; GO:0008701; P:progesterone biosynthesis;
50; GO:0005701; P:progesterone biosynthesis;
50; GO:0005716; P:signal transduction; TAS.
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Shimokuba
Eto T.;
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(Rel. 44, Last annotation update)
or [Contains: Adrenomedullin (AM); P
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P:progesterone biosynthesis;
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                                                                                                                      Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Rat
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                  Nakamura
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好行者 魔魔外女子

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RESULT 4
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DT 02-W
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AAP35548;
02-MAR-2004 (TIEMBLIEL 2
02-MAR-2004 (TIEMBLIEL 2
02-MAR-2004 (TIEMBLIEL 2
                                                                                                                                                                                                                                                                                                                                               DISULFID MOD_RES
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SEQUENCE FROM N.A. Kalnine N., Chen X., Kalnine N., Raphael
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the European Bioinformatics Institute. The use by non-profit institutions as long modified and this statement is not removed.
                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                        Adrenomedullin.
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PIR; JN0766;
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EMBL; U15419; AAB60519.1; -.
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                                                                               Homo sapiens (Human)
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SUBCELLULAR LOCATION:
TISSUE SPECIFICITY: E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         heart, spleen, duodenum and submandibular glands. SIMILARITY: Belongs to the adrenomedullin family.
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PF02039; Adrenomedullin; 1.
s; PR00801; ADRENOMEDULN.
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Primates;
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                                                                                                                                                                                                                                                                                                                                                 By similarity. Arginine amide
                                                                                                                                                                                                                                                                                                                                                                         similarity)
                                                                                                                                                                                                                                                                                                                                                                                   PreproAM C-terminal
                                                         Craniata; Vertebrata;
Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     195:921-927 (1993)
                                                                                                                                                                                                                                                        Mismatches
                                                                                                      sequence update)
annotation update)
                                                                                                                                                                                                                                                                                                                (By similarity).
ne amide (G-144 provides
(By similarity).
                                                                                                                                                     185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  There are no restrictions ng as its content is in
                                                                                                                                                                                                                                                                              DB 1;
                                                                                                                                                                                                                                                                   0.065;
                                                                                                                                                  ⋛
                                                         Hominidae;
                                                                                                                                                                                                                                                                                                                                                  (G-42
                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                      N-20
                                                                                                                                                                                                                                                                                                                                                                                                                                           Hormone; Signal
                                                                                                                                                                                                                                                                              Length 185;
                                                                                                                                                                                                                                                                                                     CRC64;
 L., Eisenstein
LaBaer J., Lin
                                                                                                                                                                                                                                                                                                                                                                                  fragment
                                                                                                                                                                                                                                                        Indels
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                                                         Euteleostomi; ; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                    terminal peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RX MEDLINE-22388257; PubMed=12477932;

RA Strausberg R.L., Feingold B.A., Grouse L.H., Derge J.G.,

RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Hopkins R.F., Jordan K., Farmer A.A., Rubin G.M., Hong L.,

RA Hopkins R.F., Jordan R.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Hopkins R.F., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Stapleton M., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Stapleton M., Wedin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Wedlan R.J., Malek J.A., Gunaratne P.H.,

RA Rohas S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.W.,

RA Hilalon D.K., Mozny D.M., Sodergren B.J., Lu X., Gibbs R.A.,

RA Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A.,

RA Hakesley R.W., Touchman J.W., Green B.D., Dickson M.C.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

RA Kzzywinski M.I., Skalska U., Smailus D.B., Schnerch A., Schein J.E.,

RA Jones S. T. Marra M A.
                                                                                              Query Match
Best Local S
Matches 10
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Best Local S
Matches 10
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EMBL; BT006902;
SEQUENCE 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-MAR-2004
02-MAR-2004
02-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Phelan M., "Cloning of
                                                                                                                                                                                                      EMBL; BC061775;
SEQUENCE 185 !
                                                                                                                                                                                                                                                                                  Strausberg
                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
TISSUE=Prostate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.
TISSUE=Prostate;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=10116;
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Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rattus norvegicus (Rat)
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                                                                                                                                                                                                                                                                                                                                                                                                                    mouse
  119
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10; Conserv
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HQIYQFTDKD
                                                HQIYQFTDKD
                                                                                                                                                                                                                                                                                                                                                                                         cDNA sequences."
L. Acad. Sci. U.S.
                                                                                                                                                                                                   (NOV-2003) to the EMBL/GenBank/DDBJ databases.
51775; AAH61775.1; -.
185 AA; 20636 MW; 35CAD9A9DD19AB35 CRC64;
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06902; AAP35548.1; -.
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of human
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full-length CDSs in
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  128
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100.0%; P
tive 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
                                                                                                                                                     Score 57;
                                                                                                    Pred. No. 0. Mismatches
                                                                                                                                                                                                                                                                                                                                                                                           99:16899-16903 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Craniata; Vertebrata; I
Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          64C7D2A0B4654DFB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                                          DB 2;
0.065;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 2;
0.065;
                                                                                                                                                                                                                                                                                                                                                                                                                                            than 15,000
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                                                                                                                                                  Length 185;
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                                                                                                    Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                            full-length human
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RESULT 6
ADML_PIG
ID ADML_PIG
AC P53366;

STANDARD;

PRT;

188

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                                                                                          Query Match
Best Local S
Matches 10
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TISSUE-Adrenal medulla;

MEDLINE-94139945; PubMed-8043068;

MEDLINE-94139945; Angawa K., Kojima M.,
                                                                                                                                    DISULFID
MOD_RES
                                                                                                                                                                                                                                                                                                                                  the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for contenties requires a license agreement (See http://www.isb-sib.ch/ar or send an email to license@isb-sib.ch).
                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                              EMBL;
                                                                                                                                                                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-OCT-1996 (Rel. 34, Created)
01-OCT-1996 (Rel. 34, Last sequence update)
05-UUL-2004 (Rel. 44, Last sequence update)
ADM precursor [Contains: Adrenomedullin (AM); Proadrenomedullin N-20
terminal peptide (ProAM-N20) (ProAM N-terminal 20 peptide) (PAMP)].
Name=ADM, Synonyms=AM;
Sus scrofa (Pig)
                                                                                                              MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kitamura K., Kangawa K., Kojimu
"Complete amino acid sequence ocDNA encoding its precursor.",
FEBS Lett. 338:306-310(1994).
                                                                                                                                                                                              PROPEP
                                                                                                                                                                                                                       SIGNAL
                                                                                                                                                                                                                                                                     Pfam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Identification and hypotensive activity terminal 20 peptide (PAMP)."; FEBS Lett. 351:35-37(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kitamura K., Kangawa K., Ishiyama Y., Kawamoto M., Minamino N., Matsuo H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Butheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                                                          Amidation; Cleavage on pair
                                                                                                                                                                                                                                                                               InterPro;
                                                                                                                                                                                                                                                                                        InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -!- FUNCTION: AM and PAMP are potent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=94357274; PubMed=8076689;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Adrenal medulla;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                agents.
SUBCELLULAR LOCATION:
TISSUE SPECIFICITY: H:
                                                                                                                                                                                                                                                                                                                                                                                                                                SIMILARITY:
                                                                                                                                                                                                                                                                                                     S41600; S41600.
122
                                                                                                                                                                                                                                                                 PF02039; Adrenomedullin; 1.
                                                                                                                                                                                                                                                                                                               D14875; BAA03590.1; -.
                      4
                                            10;
                                                                                                                                                                                                                                 protein
                                                       Similarity
                                                                                                                                                                                                                                                        PR00801; ADRENOMEDULN
                     HQIYQFTDKD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OF 22-41
HQI YQFTDKD
                                                                                                                                                                                                                                                                               IPR011038;
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22
45
95
153
                                            Conservative
                                                                                                                 146
                                                                                          À,
                                                                                                                                                                                                                              sequencing; Hormone;
                                                                                                                                                                                                                                                                                                                                                                                                                              Belongs to the adrenomedullin family.
                                                                                                                146
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41
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41
92
146
188
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131
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                                                      75.0%;
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                                                                                       group).
71749460F5660A61 CRC64;
                                                                                                            group).
Tyrosine amide
                                                                                                                                                           PreproAM C-terminal similarity).
                                                                                                                                    Arginine amide
                                                                                                                                                 By similarity.
                                                                                                                                                                                  Adrenomedullin.
                                                                                                                                                                                                          Proadrenomedullin
                                                       Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    expressed
                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            M., Ichiki Y., Matsuo H., Eto T., porcine adrenomedullin and cloning
                                                       No.
                                                                                                                                                                                                                              Signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bto
                                                                                                                                                                                                                                            residues;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hypotensive
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                                                      DB 1;
0.066;
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                                                                                                             (G-147 provides
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                                                                                                                                     (G-42
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                                                                                                                                                                                                         N-20
                                                                 Length 188;
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                                                                                                                                                                      fragment
                                                                                                                                    provides amide
                                                                                                                                                                                                       terminal
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     glands,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ichiki
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      vasodilatator
                                                                                                                                                                      (B)
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                                                                                                              amide
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                                                                                                                                                                                                       peptide
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RESULT 7

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RESULT 8
ADML CANFA
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AC 077559
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DT 16-OCT
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DE ADM pr
DE Canis
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ADMI CANFA
O77559; Q9TVC9;
16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 44, Last annotation (AM); Proadrenomedullin (AM); Proadr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DISULFID MOD_RES
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16-OCT-2001 (Rel. 40, Last sequence update)
16-OCT-2001 (Rel. 40, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
ADM precursor [Contains: Adrenomedullin (AM); P
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Life Sci. 62:1407-1415(1998)
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Mammalia; Butheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=98244567; PubMed=9585168; Barker S., Wood E., Clark A.J.L., Corder R.;
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By similarity.
Arginine amide (G-42)
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Pred. No.
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(See http://www.isb-sib.ch/announce/
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01-MAR-2004 (TrEMBLrel.
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                                   Bos taurus (Bovine).
Eukaryota, Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; AF045773; AAD05423.1; -.
EMBL; U96127; AAD09957.1; -.
InterPro; IPR001710; Adrenomedullin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=99002704; PubMed=9788655;
Ono Y., Kojima M., Okada K., Kangawa K.;
"CDNA cloning of canine adrenomedullin and heart and blood vessels in endotoxin shock.
Shock 10:243-247(1998).
 SEQUENCE FROM N.A
                NCBI_TaxID=9913;
                             Bovinae;
                                                                   Name-pBAM-2;
                                                                            Adrenomedullin.
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Imoto I., Jougasaki M.;
"Cloning of cDNA encoding canine adrenomedullin.";
"Cloning of cDNA encoding canine adrenomedullin.";
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Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis
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SUBCELLULAR LOCATION:
SIMILARITY: Belongs to
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By similarity.

By similarity.

Arginine amide (G-42 provides amide group) (By similarity).

Tyrosine amide (G-147 provides amide group) (By similarity).

N -> K (in Ref. 2).
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Last annotation updat
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Pred. No. 0.52;
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Proadrenomedullin
By similarity.
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PreproAM C-terminal
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         isolated from bovine adrenal medulla. Peptides 22:1713-1718(2001).
EMBL; AB055107; BAB62176.1; ...
GO; GO:0005576; C:extracellular; IEA.
GO; GO:0005179; F:hormone activity; IE
InterPro; IPR001710; Adrenomedullin.
Pfam; PF02039; Adrenomedullin; 1.
PRINTS; PR00801; ADRENOMEDULN.
                                       EMBL;
                                                                          This SWISS-PROT entry is copyright. It is produced through a collaboratic between the Swiss Institute of Bioinformatics and the EMBL outstation the Buropean Bioinformatics Institute. There are no restrictions on it use by non-profit institutions as long as its content is in no was modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOUSE
                                                                                                                                                                                                                                                                                                        "Expression of adrenomedullin, a hypotensive peptide, in the trophoblast giant cells at the embryo implantation site in mouse."; Dev. Biol. 203:264-275(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Genomic organization, expression, and chromosomal mouse adrenomedullin gene.";
Genomics 37:395-399(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRAIN=129/Sv;
MEDLINE=97092892; PubMed=8938454;
Okazaki T., Ogawa Y., Tamura N.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-OCT-2001 (Rel. 40, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
ADM precursor [Contains: Adrenomedullin (AM); Proadrenomedullin N-2:
terminal peptide (ProAM-N20) (ProAM N-terminal 20 peptide) (PAMP)].
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL; U77630; AAB36535.1;
MGD; MGI:108058; Adm.
                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       P97297; P974
                                                                                                                                                                                                                                                                                                                                                                 KO M.S.H
                                                                                                                                                                                                                                                                                                                                                                               Yotsumoto S., Shimada
                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=99046755; PubMed=9808778;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Okazaki T., Ogawa Y., Tamura N., Mori Y., Isse N.,
Rochelle J.M., Taketo M.M., Seldin M.F., Nakao K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (Mouse)
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                                                                                                                                                                                                                             agents.
SUBCELLULAR LOCATION:
SIMILARITY: Belongs to
                                                                                                                                                                                                                                                                                      FUNCTION:
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                     D78349; BAA11367.1;
U77630; AAB36535.1;
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9; Conserv
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90.0%;
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Pred. No. 0.52;
                                                                                                                                                                                                                                                                                  potent hypotensive
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"; IEA.
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                                                                                                                                                                                                                                                                                                                                                                                 H., Fujiwara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Proadrenomedullin N-20
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                                                                                                                                                                                                                                                                                      vasodilatator
                                                                                                                                                                                          a collaboration
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IPR001710;

01710; Adrenomedullin. Adrenomedullin; 1.

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RESULT 11
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DICTOR REPRESENTATION OF THE PROPERTY OF T
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XMEDLINE=22388257; PubMed=12477932;

XMEDLINE=2388257; PubMed=12477932;

XMEDLINE=2388257; PubMed=12477932;

XMEDLINE=2388257; PubMed=12477932;

XMALESCHU1 S.F., Zeebbarg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

XA Altschul S.F., Zeebbarg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

XA Altschul S.F., Zeebbarg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

XA HOpkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,

XA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

XA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

XA Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

XA Stapleton M.J., Usdin T.B., Peters G.J., Abramson R.D., Mullahy S.J.,

XA Stapleton M.J., Wsdin T.B., Peters G.J., Abramson R.D., Mullahy S.J.,

XA Stapleton M.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

XA Richards S., Woorley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

XA Willalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

XA Wilting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

XA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

XA Holkesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

XA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

XA Jones S.J., Marra M.A.;

"Generation and initial analysis of more than 15 000 full length human

"Generation and initial analysis of more than 15 000 full length human

"Generation and initial analysis of more than 15 000 full length human

"Generation and initial analysis of more than 15 000 full length human
Query Match
Best Local S
Matches
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Best Local S
Matches 9
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PEPTIDE
PROPEP
                                                                                                                                                                                    SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Egg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAH52665;
02-MAR-2004 (TrEMBLrel.
02-MAR-2004 (TrEMBLrel.
02-MAR-2004 (TrEMBLrel.
                                                                                                                                                                                                                                                                  "Generation and initial analysis and mouse cDNA sequences."; Proc. Natl. Acad. Sci. U.S.A. 99.
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                                                                                                 SEQUENCE
                                                                                                                                                                     Strausberg R.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120
                                                                                               tted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
BC052665; AAH52665.1; -.
NCE 184 AA; 20750 MW; C88C9903C479C898 CRC64;
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  Similarity
9; Conserv
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184 AA;
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184
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41
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Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                144
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90.0%;
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27,
27,
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Last sequence update)
Last annotation updat
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Tyrosine
                         Score 51; I
Pred. No. 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 51; I
Pred. No. 0
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A -> G (in Ref. 2).
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                                             Length 184;
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Q55549;
01-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                 Q24544 PRELIMINARY; PRT; Q24544; Q24544; O1-NOV-1996 (TrEMBLrel. 01, Created) 01-NOV-1996 (TrEMBLrel. 01, Last seque o1-MAR-2004 (TrEMBLrel. 26, Last annoted the monologous to synapsin II (Fragment).
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                                                                    SEQUENCE FROM N.A.
STRAIN=wildtype 'Berlin'; TISSUE=Head;
MEDLINE=96209149; PubMed=8627354;
                                                                                                                                                                                                     Neoptera; Endopterygota; Diptera; Brachycera;
Ephydroidea; Drosophilidae; Drosophila.
NCBI_TaxID=7227;
                                                                                                                                                                                                                                                                                                             Name=Syn; Synonyms=SYN2;
Drosophila melanogaster (Fruit fly).
Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. I. Sequence features in the 1 Mb region from map positions 64% to 92% of the genome.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions."; DNA Res. 3:109-136(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=PCC6803;
STRAIN=PCC6803;
MEDLINE=97061201; PubMed=8905231;
PubMed=8905231
   Klagges B.R., Hein Pflugfelder G.O.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Kaneko T., Tanaka A.,
Sugiura M., Tabata S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Synechocystis sp. (strain PCC 6803). Bacteria; Cyanobacteria; Chroococcales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OrderedLocusNames=slr0168;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
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                                   Heimbeck G., Godenschwege T.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PubMed=8590279;
A., Sato S., Kotani H.,
       Reifegerste R., Reisch
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   , Hofbauer A Schaupp M.,
                                                                                                                                                                                                                                                                                   Muscomorpha;
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                                   Α.
          Buchner
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RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Adams M.D., Celniker S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Rahlun, Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L.,
RA Beleson K.Y., Benos P.V., Berman B.P., Bhandari D., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenportt L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenportt L.B., Davies P.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
RA Glodek A., Gong P., Gorrell J.H., Gu Z., Gabart M.M., Glasser K.,
RA Hostin D., Houston K.A., Howland T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibsgwam C.,
RA Liuk X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkhlov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Nelson D.R., Petitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
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STRAIN-wildtype 'Berlin'; TISSUE-Head;

KRagges B.R.E.;

Submitted (JAM-1996) to the EMBL/GenBank/DDBJ day

EMBL; X95454; CAA64724.1; -.

PlyBase; FBgn0004575; Syn.

GO; GO:0008021; C:synaptic vesicle; IEA,

GO; GO:0007269; P:neurotransmitter secretion; IE

InterPro; IPR001359; Synapsin.
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01-MAR-2003
01-MAR-2003
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CG3985-PC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Name-Syn; ORPNames=CG3985;
Drosophila melanogaster (Fruit fly).
Drosophila melanogaster (Fruit fly).
Eukaryota, Metazoa; Arthropoda; Hexapoda; Insecta; Pterygo
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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Matches 10
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EMBL; AB003686; AANI3464.2; -.
HSSP; P17599; LAUX.
FlyBase; FBgn0004575; Syn.
GO; GO:0008021; C:synaptic vesicle; I
GO; GO:00007269; P:neurotransmitter se
InterPro; IPR001359; Synapsin.
Pfam; PF02750; Synapsin.C; 1.
Pfam; PF02078; Synapsin.N; 1.
PRINTS; PR01366; SYNAPSIN.
SEQUENCE 488 AA; 52962 MW; 452EDA
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Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
Smith C.D., Tupy J.L., Whitfied B.J., Bayraktaroglu L., Berman B.P.,
Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
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MEDLINE=22426070; PubMed=12537573;

Kaminker J.S., Bergman C.M., Kronm.

Patel S., Frise B., Wheeler D.A., I

Ashburner M., Celniker S.B.;
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a genomics perspective.";
Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002)
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YGGVPSINSLHSIYQFQDK 199
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geon A.,
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SEQUENCE FROM N.A.
MEDLINE=22426069; PubMeci
Misra S., Crosby M.A., N
Hradecky P., Huang Y., R
Smith C.D., Tupy J.L., W
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01-APR-2004 (T:
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01-APR-2004 (T:
CG3985-PC:
SYN OR CG3985.
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Genome Biol. 3:RESEARCH0079-RESEARCH0079(2002).
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Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
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M.A., Mungall C.J.
ng Y., Kaminker J.S
J.L., Whitfied E.J

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EMBL; AE003686; AAN134
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Harris N.L., Richter
Stapleton M., Yamada
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Genome Biol. 3:RESEARCH0084-RESEARCH0084(2002).
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                                                                                                                                                  Cuttitta F, Martinez Gray K, Macri C;
amino acids (aa) 34-41 with the sequence
                                                     Claim 1; Page 43; 106pp; English.
                                                                               Human adrenomedullin peptide(s), PO70, PO71, PO72 and PAMP-20 the diagnosis and treatment of type II diabetes and cancer.
                                                                                                                          WPI; 1997-165298/15.
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ALIGNMENTS

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18-AUG-1995;
30-AUG-1995;
12-MAR-1996;
                                                                                                                                                                                                                                                                                                                                      Adrenomedullin; antibody; detection; diagnosis; cancer; renal; bone; skin; blood related; disease; type II diabetes; preeclampsia; neurotransmission regulation; allergy; mast cell degranulation; antibacterial; antifungal; wound repair.
                                                                         16-AUG-1996;
                                                                                                                                                                                                                                                                                                       Homo_sapiens.
                                                                                                              27-FEB-1997.
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95US-0002936P.
96US-0013172P.
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/note= "residues 116-146
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Miller MJ, Unsworth EJ,

Hook W,

Walsh T;

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PO71, PO72 and PAMP-20 were used (Ab). PO70 represents preproAM Tyr-Tyr attached at the N-

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RESULT 2
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10-SEP-1999;
15-OCT-1999;
                 The present invention describes a modified therapeutic peptide (I) comprising a therapeutically active amino acid region (III) and a reactive group (II) (e.g. succinimidy) and maleimide groups attached to a less therapeutically active amino acid region (IV), which covalently bonds with amino/hydroxyl/thiol groups on blood components to form a peptidase stabilised therapeutic peptide composed of 3-50 amino acids (I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity
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(i) regulating neurotransmission or neuron growth in areas of the central nervous system, (ii) lessening or inhibiting mast cell degranulation and hence reducing the effects of an allergic response; (iii) inhibiting or preventing bacterial and fungal growth (to treat infection); (1v) facilitating wound healing; and (v) promoting organ and bone development
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                                                                                                                                                                                                                                                                                                                                          Disclosure;
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factors and neurotransmitters, to protect the vivo for the treatment of various disorders.
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                                                                                                                                                                                                                                                                                                                                                                                                     and attaching therapeutic peptides degradation, useful for increasing
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                                                                                                                                                                                                                                                                                                                                                                                                        activity
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RESULT 3
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Best Local S
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                                    The invention relates to antagonists of the vasoactive peptide calcitonin gene related peptide (CGRP) and other members of the CGRP superfamily. The invention also relates to amino the terminal modifications of peptides to improve their ability to bind to a member of the CGRP receptor super-family. CGRP antagonists are used for inhibiting CGRP activity which can be used in vitro e.g. in assays to identify and/or isolate CGRP receptors or with intact cells either in vitro or in vivo to inhibit the effect of CGRP binding to its receptor. The present sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peptides are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body. Modifying and attaching therapeutic peptides to albumin prevents or reduces the action of peptidases to increase length of activity (half life) and specificity as bonding to large molecules decreases intracellular uptake and interference with physiological processes. AAB90829 to AAB92441 represent peptides which can be used in the exemplification of the present invention
                                                                                                                                                                    Claim
Sequence 31
                                                                                                                                                                                                              Vasoactive peptides useful for inhibiting calcitonin gene related peptide
                                                                                                                                                                                                                                                                        Smith
                                                                                                                                                                                                                                                                                                                              30-APR-1998;
                                                                                                                                                                                                                                                                                                                                                          30-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                      31-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; vasoactive peptide; calcitonin gene related peptide; CGRP; CGRP-receptor identification; adrenomedullin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human adrenomedullin peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-NOV-2001
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                                                                                                                                                                                                 receptor activity.
                                                                                                                                                                                                                                            WPI; 2001-564216/63.
                                                                                                                                                                                                                                                                                                                                                                                                                US6268474-B1
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Modified-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGRP-receptor
                                                                                                                                                                                                                                                                                                    (UYCR-) UNIV CREIGHTON
                           human adrenomedullin peptide
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 A,
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                                                                                                                                                                                                                                                                      Abel
                                                                                                                                                                     English.
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Pred. No. 3.6e-18;
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Query Match
Best Local Similarity
Matches 31; Conser

milarity 100.
Conservative

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Score 163; DB 4 Pred. No. 3.6e-1); Mismatches

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31

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RESULT 5
ADP18403
ID ADP1
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AC ADP1
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KW neux
KW neux
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                                                                                                                                                                                                                                                          Query Match
Best Local 8
                                                                                                                                                                                                                                                                                                                                       The invention relates to peptides comprising an amino acid sequence derived from a fully defined 52 amino acid sequence (S1) given in the specification. Peptides may be created by deletion of some amino acids from the N-terminal of S1. The peptides are applicable in drug compositions for treating cancer e.g. stomach cancer, colon cancer, pulmonary cancer, ovarian cancer, liver cancer or pancreatic cancer. The current sequence represents an angiogenesis inhibiting peptide of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Peptides with effect on inhibiting angiogenesis in cancer cells and inhibiting proliferation of cancer cells, and encoded polymucleotid applicable in drug compositions for treating cancer.
neurogenesis modulation; neural tissue; central nervous system disorder; neurodegenerative; ischaemic; learning and memory disorder;
                                        Neurogenesis modulation-related peptide SeqID17
                                                                                                                      ADP18403 standard; peptide; 31
                                                                                                                                                                                                                                                                                                   Sequence 31
                                                                                                                                                                                                                                                                                                                               invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-767505/72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19-MAR-2002; 2002JP-00075575
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          19-MAR-2003; 2003WO-JP003344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-SEP-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cytostatic; gene therapy; cancer; stomach; colon; pulmonary; ovarian;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human angiogenesis inhibiting peptide #SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-DEC-2003
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                                                                                                                                                                                                                                               Conservative
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                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ID NO 2; 41pp; Japanese
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TECHNOLOGY LICENSING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           peptide;
                                                                                                                                                                                                                                                        100.0%; Score 163; DB 7;
100.0%; Pred. No. 3.6e-18;
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                                                                                                                                                                                                                                                                     Length 31;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polynucleotides,
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                                                                                                                                                                                                                                             Gaps
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This invention relates to a novel method of modulating neurogenesis in the neural tissue of a patient exhibiting symptom(s) of a central nervous system disorder, such as neurodegenerative, ischaemic or learning and memory disorder or neurological trauma. The method involves at least one agent (A) that elevates intracellular cyclic adenosine monophosphate (cAMP) levels or at least one agent (B) that elevates intracellular Ca 2+ levels in the neural tissue, which is administered where (A) modulates and (B) induces neurogenesis. The invention may be useful for the production of compounds with a nootropic, neuroprotective, CNS-Gen, cerebroprotective, vasotropic, anticonvulsant, antiparkinsonian. haemostatic, hypertensive, muscular-Gen, opthalmological, antiinflammatory, analgesic or antidiabetic activity. These compounds may act as neurogenesis modulators, neural stem or progenitor cell proliferation, differentiation and/or migration modulators, neural tissue

Use of agent(s) that elevate intracellular cyclic adenosine monophosphate or intracellular calcium levels in neural tissue for modulating

neurogenesis

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treat

central nervous

system

disorder.

Disclosure;

SEQ ID NO 17; 77pp; English.

WPI; 2004-449666/42.

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cerebroprotective; vasotropic; anticonvulsant; antiparkinsonian; haemostatic; hypertensive; muscular-Gen; ophthalmological; antiinflammatory; analgesic; antidiabetic; neurogenesis modulator; neural stem cell; progenitor cell; neural stem cell; progenitor cell; neural tissue G-protein coupled receptor activator; neurogenesis inducer; intracellular neural cAMP enhancer; intracellular neural Ca2+ enhancer; Parkinson's disease; intracellular neural Ca2+ enhancer; Parkinson's disease; Parkinson's disease; Huntington's disease; By-Drager syndrome; Parkinson's disease; amyotrophic lateral sclerosis; Shy-Drager syndrome; progressive supranuclear palsy; Lewy body disease; spinal ischaemia; ischaemic stroke, cerebral infarction; spinal cord injury; cancer-related brain; spinal cord injury; multi-infarct dementia; geriatric dementia; cAMP level; embryonic tissue; human.
                                          Hellstroem
                                                              Bertilsson
Roennholm H,
                                                                                                                                                                           (NJBE/
(OSSO/
(PATR/
                                                                                                                                                                                                                                                                                                                                                                     (HELL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-NOV-2002; 2002US-0427912P
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                                                                                                                                                                                                                                                             (MCGU,
                                                                                                                                                                                                                                                                                   (FIND)
                                                                                                                                                                                                                                                                                                         (TIND)
                                                                                                                                                                                                                                                                                                                                               (JANS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             neurological trauma; nootropic; neuroprotective; CNS-Gen;
                                                                                                                                                    ROEN/)
                                                                                                                                                                                                                                                                                                                             KORT
                                                                                                                                                                                                                                                                                                                                                                                                                                   HABG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sapiens
                                                                                                      MERCER A.
NJBERG K.
OSSOINAK A.
OSSOINAK A.
PATRONE C.
ROENNHOLM H.
ZACHRISSON O.
WIKSTROEM L.
                                                                                                                                                                                                                                                                              HAEGGBLAD J.
JANSSON K.
KORTESMAA J.
LINDQUIST P.
LUNDH H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NEURONOVA AB.
BERTILSSON G.
ERLANDSSON R.
                                                                                                                                                                                                                                                                                                                                                                                                         HAEGESTRAND A
HEIDRICH J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     FRISEN J
                                                                                                                                                                                                                                                          MCGUIRE J.
                                                                                                                                                                                                                                                                                                                                                                                         HELLSTROEM K.
                   Mcguire
                                            ָא ָด
  Zachrisson O,
                      Erlandsson R,
Haeggblad J,
Lire J, Mercer
Jansson K, Ko C A, Njberg K, Wikstroem L;
                   Haegestrand A, Heidrich
Kortesmaa J, Lindquist
K, Ossoinak A, Patrone
                                                              Heidrich
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RESULT 6
AAB91759
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Best Local :
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                                                                     17-MAY-1999;
10-SEP-1999;
15-OCT-1999;
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Bridon DP,
                                                                                                                                                                                                                                                                            Protection; endogenous therapeutic peptide; peptidase; conjugation; blood component; modification; succinimidyl; maleimido group; amino hydroxyl; thiol; hormone; growth factor; neurotransmitter.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                G-protein coupled receptor activators, neurogenesis inducers, intracellular neural cAMP enhancers, intracellular neural cAMP
                                                                                                                                  17-MAY-2000; 2000WO-US013576.
                                                                                                                                                                   23-NOV-2000
                                                                                                                                                                                                 WO200069900-A2
                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                              Adrenomedullin peptide (AM)
                                                                                                                                                                                                                                                                                                                                                                              22-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                           AAB91759 standard; peptide; 52
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 31
                                       (CONJ-) CONJUCHEM INC
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        Ezrin AM,
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                                                                     99US-0134406P.
99US-0153406P.
99US-0159783P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 method of the invention.
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        Milner PG,
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Pred. No. 3.6e-18;
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                                                                                                                                                                                                                                                                                                                                              ID NO: 935
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        Holmes
      F,
        Thibaudeau
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 31;
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Disclosure; Page 45;

75pp; Japanese

application comprises recombinant host.

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precursor

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      peptidase stabilised therapeutic peptide composed of 3-50 amino acids. (I) are useful for modifying therapeutic peptides e.g. hormones, growth factors and neurotransmitters, to protect them from peptidase activity ivo for the treatment of various disorders. Endogenous therapeutic peptides are not suitable as drug candidates as they require frequent administration due to rapid degradation by peptidases in the body. Modifying and attaching therapeutic peptides to albumin prevents or reduces the action of peptidases to increase length of activity (half life) and specificity as bonding to large molecules decreases intracellular uptake and interference with physiological processes. AAB90829 to AAB92441 represent peptides which can be used in the exemplification of the present invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The present invention describes a modified therapeutic peptide (I) comprising a therapeutically accident amino acid region (III) and a reactive group (III) (e.g. succinimidy) and maleimido groups) attached a less therapeutically active amino acid region (IV), which covalently
                                                                                                      WPI; 2001-282044/29
N-PSDB; AAH19806.
                                                                                                                                                                                                                                                                                                                                                                                                                                      31-JUL-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAB75110 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 52 AA;
                                                                         Producing adrenomedullin useful
                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                           Adrenomedullin; glycine extended adrenomedullin; AM; AM-gly; adrenomedullin precursor; fusion protein; pharmaceutical; diagnostic.
                                                                                                                                                                                                                                                                                                                                                                                                          Human adrenomedullin (AM) protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAB75110;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page 498; 733pp; English.
                                                                                                                                                  Takimoto A, Mitsuda Y,
                                                                                                                                                                                                                                           10-OCT-2000; 2000WO-JP007023
                                                                                                                                                                                                                                                                         19-APR-2001.
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                                                                                                                                                                                (SHIO ) SHIONOGI & CO LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               and attaching therapeutic peptides to albumin prevents degradation, useful for increasing length of in vivo activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                             99JP-00294147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 163; DB 4; 100.0%; Pred. No. 6.6e-18;
                                                                                                                                                  Nakayama
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                                                            for pharmaceutical and diagnostic fused adrenomedullin precursor us
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RESULT 8
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                                                                                                                      The invention relates to antagonists of the vasoactive peptide calcitonin gene related peptide (CGRP) and other members of the CGRP superfamily. The invention also relates to amino the terminal modifications of peptides to improve their ability to bind to a member of the CGRP receptor super-family. CGRP antagonists are used for inhibiting CGRP activity which can be used in vitro e.g. in assays to identify and/or isolate CGRP receptors or with intact cells either in vitro or inhibit the effect of CGRP binding to its receptor. The present sequence is human adrenomedullin peptide
                                                                                                 Sequence
                                                                                                                                                                                                                                                                  Claim 5; Col 25-26; 24pp; English.
                                                                                                                                                                                                                                                                                             Vasoactive peptides useful for inhibiting calcitonin gene related receptor activity.
                                                                                                                                                                                                                                                                                                                                       WPI; 2001-564216/63
                                                                                                                                                                                                                                                                                                                                                                                             (UYCR-) UNIV CREIGHTON.
                                                                                                                                                                                                                                                                                                                                                                                                                         30-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   30-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; vasoactive peptide; calcitonin gene related peptide; CGRP; CGRP-receptor identification; adrenomedullin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human adrenomedullin peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-NOV-2001
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                                                       Score 163; DB 4;
Pred. No. 6.6e-18;
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Pred. No. 6.6e-18;
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18-DEC-2003 ADC25152;

(first entry)

ADC25152 standard;

peptide;

52

Human angiogenesis inhibiting peptide #SEQ

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RESULT 10
ADC25152
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                                                                                                                      Query Match
Best Local :
                                                                                                                                                                                  and related peptides, such as adrenomedullin, that have at least 70% identity to the native form but are modified such that the tendency of the peptide to aggregate is reduced. Preferred regions for modification include those for which the peptide is polymorphic amongst different species, which increase the propensity of the peptide to form local interactions of the alpha-helical type, or which reduce the number of hydrophobic residues or increase the net charge of the peptide. When aggregation is reduced or prevented, lower doses of the drug can be used. Side-effects and undesired responses are minimised by retaining high sequence identity to the human peptide
                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                            hypotensive
and related
                                                                                                                                                                                                                                                                                                                                                                                         New modified human calcitonin peptide having reduced aggregation, useful for the treatment of Paget's disease, hypercalcemia and/or osteoporosis.
                                                                                                                                                                                                                                                                                                                                                                Example; Page 21; 35pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-046916/04.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-APR-2001; 2001GB-00009438
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Adrenomedullin; human; protein engineering; solubility; aggregation; hypotensive; vasodilator; cyclic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zurdo J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-APR-2002; 2002WO-GB001778
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ISIS-)
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                                                                                                                      Similarity
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                                                      TVQKLAHQIYQFTDXDKDNVAPRSKISPQGY
                                                                                                                                                             52 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dobson CM;
                                                                                                                                                                                                                                                                                                                      sequence is that of human adrenomedullin, a potent and vasodilator. The invention provides modified calcitonin
                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                    100.0%;
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                                                                                                                    Score 163; DB 6;
Pred. No. 6.6e-18;
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                                                                                                         Mismatches
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RESULT 11
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Best Local S
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                                                                                                                                                                                                                                               WO2003078658-A2
                                                                                                                                                                                                                                                                                                                                                   neuroleptic; antisense therapy; gene therapy; adrenomedullin agonist; schizophrenia; gene expression; decidual protein induced by progesterone; DEPP; adrenomedullin; cold shock domain protein A; csdA; antisense; siRNA; ribozyme; triple helix formation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human mature adrenomedullin protein.
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                                                                                20-MAR-2002; 2002US-0366001P
                                                                                                                                  19-MAR-2003; 2003WO-EP002875
                                                                                                                                                                                                                                                                                                 Homo sapiens
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(NOVS ) NOVARTIS PHARMA GMBH
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-767505/72
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Pred. No. 6.6e-18;
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Modified-site

Location/Qualifiers

Modified-site

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/note= "This residue forms a thioether bond with residue

residue forms a thioether bond with residue lanthionine ring"

Unidentified.

pre-peptide; lantibiotic; pharmaceuticals; vaccine;

20-MAY-2004 ADL91994;

(first entry)

ADL91994 standard;

protein;

52

B

harvesting; recombinant; host cell; N-terminal leader peptide; pre-peptide; lantibiotic; post-translational modification;

post-translational modification; immunogenic.

Adrenomedullin hypotensive peptide Al3, \$16-sequence.

24-MAY-2002; 07-FEB-2003;

2002BP-00077060. 2003US-00360101.

(NANO-) APPLIED NANOSYSTEMS BV

26-MAY-2003; 2003WO-NL000389

WO2003099862-A1

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RESULT 12
ADL91994
ID ADL91
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Buxton FP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    treatment of schizophrenia. This sequence represents the mature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a method of screening for schizophrenia in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID NO 1; 41pp; English.
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ilarity 100.0%;
Conservative (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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Pred. No. 6.6e-18;
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RESULT 13
ADM94034
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  a cell comprising a first nucleic acid encoding a leader peptide and a second nucleic acid fragment encoding the desired (poly) peptide. The first and second fragments are within the same open reading frame of the first nucleic acid and the leader peptide is functionally equivalent to an N-terminal leader peptide found with the pre-peptide of a lantibiotic. The host cells and nucleic acids are useful for producing, harvesting and post-translational modification of polypeptides. The polypeptides may be used in the production of pharmaceuticals, e.g. as antigen for vaccine or immunogenic composition. This sequence represents a polypeptide relating to the novel method of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Harvesting a desired polypeptide produced by a recombinant host cell, producing pharmaceuticals, comprises selecting a recombinant nucleic comprising nucleic acid fragments encoding a leader peptide and the polypeptide.
                                                                                                                                                                                                                                                                                                                   calcitonin receptor stimulating peptide; CRSP; cAMP activity, skeletal disorder; cancer; hypertension; restenosis; analgest appetite suppressant; diuretic; vasotropic; cytostatic; diure osteopathic; anorectic; hypotensive; human; AM.
              WPI; 2004-043113/04
                                                                                                            04-JUN-2002; 2002JP-00162797.
                                                                                                                                      28-MAY-2003; 2003WO-JP006641
                                                                                                                                                                                                                                   Disulfide-bond
Modified-site
                                                                                                                                                                                                                                                                                                                                                                                        Human AM peptide, a CRSP homologue
                                                                                                                                                                                                                                                                                                                                                                                                                      17-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADM94034 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel method for harvesting a (poly) peptide produced by a recombinant host cell. The novel method involves selecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; Page 44; 109pp; English.
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                                                                  JAPAN
JAPAN
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                                        Katafuchi
                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                  SCI & TECHNOLOGY CORP.
NAT CARDIOVASCULAR.
                                                                                                                                                                                                                                   Location/Qualifiers
16. .21
52
                                                                                                                                                                                                                        'note= "C-terminal amide"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          peptide;
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Pred. No. 6.6e-18;
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                                                                                                                                                                                                                                                                                                                                  analgesic;
lc; diuretic;
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dependent sodium ion uptake and furthermore act to inhibit calcium ion uptake by the cell. The present invention describes mutant peptides derived from the CRSPs that have additions, deletions and/or substitutions of one or more amino acids, yet that retain similar activity and are useful for developing drug compositions and pharmaceutically acceptable carriers to treat and/or prevent skeletal disorders, cancer, hypertension and restenosis. Furthermore, CRSPs can also be used as analgesics, appetite suppressants and diuretics such that exhibit vasotropic, cytostatic, diuretic, osteopathic, anorectic and hypotensive activities. This peptide sequence is a human AM peptide that has cAMP activity, given in an exemplification of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Calcitonin receptor stimulating peptides promoting cAMP production in cells for treatment of cancer, skeletal disorders and hypertension and appetite suppressants and analgesics.
                                                                                                                                                                                                                                                                                                                                                                 This invention relates to novel calcitonin receptor stimulating peptides (CRSPs) that are expressed in the central nervous system and act on the calcitonin receptor to promote the production of cAMP within a cell. Specifically, it refers to CRSPs that can stimulate concentration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Fig
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2; 62pp; Japanese.
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밁 ş Query Match Best Local S Matches 31 22 31; \vdash Similarity TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY Conservative 100.0%; 0 Score 163; DB 8; Pred. No. 6.6e-18; ; Mismatches 0; 52 31 Length Indels 52 0 Gaps

0

Sequence 52

A A

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RESULT 14
ADN03278
Exemplary peptide
                                                                                                                                 US2003119021-A1
                                                                                                                                             Unidentified
                                                                                                                                                              Peptide ligand; proteome; capture compound; mass spectrometry; protein separation;
                                                                                                                                                                                           17-JUN-2004
                                                                                                                                                                                                      ADN03278
                                                                                                                                                                                                                  ADN03278 standard; peptide; 52
                                                                                                                                                         assisted
                                                                                                                                                                                           (first entry)
                                                                                                                                                        laser desorption ionisation-time of flight; MALDI-TOF.
                                                                                                                                                                               ligand
                                                                                                                                                                               for proteome analysis
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16-JUL-2001; 2001US-0306019P. 21-AUG-2001; 2001US-0314123P. 11-MAR-2002; 2002US-0363433P. 16-JUL-2002; 2002US-00197954. 26-JUN-2003.

(KOST/) KOSTER H. (SIDD/) SIDDIQI S. (LITT/) LITTLE D P.

Koster H, Siddiqi S, Little DP

WPI; 2004-059185/06

Collection of capture compounds capable of binding to biomolecules to form complexes that are stable under mass spectrometry conditions, useful for analysis of biomolecules, especially proteins.

Disclosure; SEQ ID NO 'n 165pp; English

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ADM99309
ADM99309
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CC compound of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AM(11-22); vasoconstriction; human; adrenomedullin; AM; vasoregulatory; blood pressure; vasodilator; vasodilatory shock; septic shock; haemorrhagic shock; vasotropic; hypotensive; immunosuppressive;
                                                                                                                                                                                          New AM(11-22) peptides, useful for useful for for treating septic shock, vasodilatory shock for reducing blood pressure.
                                                                                                                                                                                                                                                                                                                                                                                                                                           Cuttitta F,
Saavedra JM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              04-OCT-2002; 2002US-0416291P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADM98309 standard; protein;
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                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-340778/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-OCT-2003; 2003WO-US031400
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Martinez A,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Stetler-Stevenson WG,
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                                                                                                                                                                                                                                inducing vasoconstriction, or hemorrhagic shock, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unsworth EJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 52;
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This invention relates to a novel peptide AM(11-22) useful for treating

Disclosure; SEQ ID NO 3; 40pp; English.

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                                                                                                                                                                                                                           shock, or in a pharmaceutical composition for inducing vasoconstriction. Specifically, AM(11-22) is a short peptide derived from human adrenomedullin (AM), which is a vasoregulatory compound that influences blood pressure. The present invention describes screening assays to identify compounds including antibodies, small molecule inhibitors or peptides that modulate AM(11-22)-mediated vasoconstriction and as such represent novel vasodilators or vasoconstrictors. Accordingly, AM(11-22) can be used therapeutically in a pharmaceutical composition to inhibit blood flow following traumatic or surgical injury, as well as for vasodilatory, septic or haemorrhagic shock, and thus exhibits vasotropic, hypotensive, immunosuppressive and antibacterial activities. This polypeptide sequence is the mature human adrenomedullin protein of the
                                                                                                                                                                   Sequence 52 AA;
                                                                                                                                                                                                             invention.
22 TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY
                        1 TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY
                                                                                    31;
                                                                                                       Similarity
                                                                                    Conservative
                                                                                                     100.0%; Score 163; DB 8; 100.0%; Pred. No. 6.6e-18;
                                                                                 0
                                                                                    Mismatches
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  52
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                                                                                                                           Length
                                                                                      Indels
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Search completed: January Job time: 159.932 secs υ ' 2005, 08:49:13

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Result
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Maximum DB seq length: 200000000
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Perfect score:
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                                                                                                                                                                                                                                                                                    Score
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    Published Applications AA:*

1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep:*

2: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*

3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep:*

4: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*

6: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep:*

7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep:*

9: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep:*

10: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

11: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

12: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

13: /cgn2_6/ptodata/2/pubpaa/US09_PUBCOMB.pep:*

14: /cgn2_6/ptodata/2/pubpaa/US10_PUBCOMB.pep:*

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US-09-813-345-14
US-09-813-345-14
US-10-197-954-2
5 US-10-360-101-74
6 US-10-364-889-6
5 US-10-372-683-12
6 US-10-372-683-12
6 US-10-755-889-148
US-09-813-345-15
US-09-931-700-2
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  Sequence 3, Appli
Sequence 14, Appl
Sequence 23, Appl
Sequence 24, Appl
Sequence 74, Appl
Sequence 19, Appl
Sequence 17, Appl
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Sequence 18, Appl
Sequence 18, Appl
Sequence 15, Appl
Sequence 15, Appl
Sequence 27, Appli
Sequence 27, Appli
Sequence 27, Appli
Sequence 27, Appli
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                                                           APPLICANT: UNDITONIA, THOMAS
APPLICANT: WALSH, THOMAS
APPLICANT: WALSH, THOMAS
APPLICANT: WACKI, CHARLES
APPLICANT: WACKI, CHARLES
APPLICANT: WACKI, CHARLES
TITLE OF INVENTION: Functional Role of Adrenomedullin (AM) and the
TITLE OF INVENTION: Gene-Related Product (PAMP) in Human Pathology and
TITLE OF INVENTION: Physiology
FILE REFERENCE: 2026-4202US4
CURRENT APPLICATION NUMBER: US/09/931,700
CURRENT FILING DATE: 1998-02-17
PRIOR APPLICATION NUMBER: CT/US96/13286
PRIOR APPLICATION NUMBER: CT/US96/13286
PRIOR APPLICATION NUMBER: US/00/013,172
PRIOR APPLICATION NUMBER: US/00/013,172
PRIOR FILING DATE: 1996-03-12
PRIOR FILING DATE: 1996-03-12
PRIOR APPLICATION NUMBER: US/00/002,936
PRIOR APPLICATION NUMBER: US/00/002,936
PRIOR APPLICATION NUMBER: US/0002,514
PRIOR APPLICATION NUMBER: US/0002,514
PRIOR FILING DATE: 1995-08-18
NUMBER OF SEQ ID NOS: 17
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 3
IENGTH: 31
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APPLICANT: MARTINEZ, ALFREDO
APPLICANT: MILLER, MAE JEAN
APPLICANT: UNSWORTH, EDWARD J.
APPLICANT: HOOK, WILLIAM
APPLICANT: WALSH, THOMAS
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    LENGTH: 31
TYPE: PRT
TYPE: PRT
ORGANISM: Artificial Sequence
PEATURE:
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15 US-10-424-599-274214
15 US-10-389-566-1910
15 US-10-389-566-1913
15 US-10-389-566-1913
17 US-10-739-930-5546
16 US-10-696-616-62
17 US-10-696-616-62
15 US-10-424-599-259144
17 US-10-424-599-259144
17 US-10-424-599-25914
18 US-10-423-963-195045
18 US-10-437-963-195045
18 US-10-437-963-107189
18 US-10-437-963-107189
18 US-10-128-714-3547
18 US-10-128-714-8547
18 US-10-425-115-251952
18 US-10-424-599-224233
18 US-10-437-963-139304
18 US-10-731-9568-494
18 US-10-731-9568-494
18 US-10-741-601-526
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Sequence 1, Appl,
Sequence 4, Appl,
Sequence 2660, Ap
Sequence 3547, Ap
Sequence 347, Ap
Sequence 309562,
Sequence 169347,
Sequence 570, App
Sequence 570, App
Sequence 251952,
Sequence 251952,
Sequence 224233,
Sequence 139304,
Sequence 139304,
Sequence 139304,
Sequence 57483, App
Sequence 524, App
Sequence 525, App
Sequence 525, App
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77837, A
195045,
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1493, Ap
2131, Ap
5546, Ap
35785, A
42, Appl
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SUPERFAMILY AND METHODS OF USE

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APPLICANT: MACKI, CHARLES
TITLE OF INVENTION: Functional Role of Adrenomedullin (AM) and the
TITLE OF INVENTION: Gene-Related Product (PAMP) in Human Pathology and
TITLE OF INVENTION: Physiology
FILE REFERENCE: 2026-4202US4
CURRENT APPLICATION NUMBER: US/09/931,700
CURRENT FILING DATE: 2001-08-16
PRIOR APPLICATION NUMBER: 09/011,922
PRIOR FILING DATE: 1998-02-17
PRIOR APPLICATION NUMBER: PCT/US96/13286
PRIOR APPLICATION NUMBER: US/60/013,172
PRIOR PILING DATE: 1996-03-12
PRIOR PILING DATE: 1996-03-12
PRIOR PILING DATE: 1996-08-30
PRIOR PILING DATE: 1995-08-30
PRIOR PILING DATE: 1995-08-30
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US-09-813-345-23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-931-700-14
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Matches
                                                                                Sequence 23, Application US/09813345
Patent No. US20020068814A1
GENERAL INFORMATION:
APPLICANT: Smith, Derek D.
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Best Local (
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Best Local Similarity
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PRIOR FILING DATE: 1995-08-18
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             OTHER INFORMATION: Description of Artificial Sequence: Peptide, OTHER INFORMATION: Synthetic homolog of AM (P072), Structural amino OTHER INFORMATION: acid sequence representing two-thirds of the OTHER INFORMATION: intact AM peptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Artificial Sequence FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LENGTH: 31
TITLE OF
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MILLER, MAE JEAN
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Saha, Shankar
Abel, Peter W.
INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR
                                                                                                                                                                                                                                                                                                                                                                                      100.0%;
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100.0%; Pred. No. 2.3e-16;
tive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                     0,
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Pred. No. 2.3e-16;
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US-09-813-345-14
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Patent No. US20020068814A1
GENERAL INFORMATION:
APPLICANT: Smith, Derek D.
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SEQUENCE CHARACTERISTICS:
LENGTH: 31 amino acids
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/813,345
FILING DATE: 20-Mar-2001
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.
CURRENT APPLICATION DATA:
APPLICATION UMMBR: US/09/813,345
FILING DATE: 20-Mar-2001
CLASSIFICATION: «Unknown»
ATTORNEY/AGENT INFORMATION:
NAME: MCCOrmack, Myra H
PROCESSIFICATION NAME: MCCORMATION: ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REGISTRATION NUMBER: 36,602
REFERENCE/DOCKET NUMBER: 180.00020101
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612/305-1220
TELEPAX: 612/305-1228
                                                                                                                                                                                                                                                                                                           CORRESPONDENCE ADDRESS:
ADDRESSEE: Mueting, Raasch & Gebhardt, P.A.
STREET: 119 No. US20020068814A1th Fourth Street
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MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 23:
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CORRESPONDENCE ADDRESS:
ADDRESSEE: Mueting, Raasch & Gebhardt, P.A.
STREET: 119 No. US20020068814A1th Fourth Street
                                                                                                                                                                                                                                                                                                                                                                                                    TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR SUPERFAMILY AND METHODS OF USE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ZIP: 55401
COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                         ZIP: 55401
                                                                                                                                                                                                                                                COUNTRY: USA
                                                                                                                                                                                                                                                                         STATE: MN
                                                                                                                                                                                                                                                                                           CITY: Minneapolis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Peter W.
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US-10-360-101-74
; Sequence 74, Application US/10360101
; Publication No. US20040009550A1
; Publication No. US20040009550A1
; EAPPLICANT: Moll, Gert N.
; APPLICANT: Leenhouts, Cornells J.
TITLE OF INVENTION: Export and modification of FILE REFERENCE: 2183-5673
; CURRENT APPLICATION NUMBER: US/10/360,101
; CURRENT FILING DATE: 2003-02-07
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Best Local Similarity 100.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION NUMBER: 60/363,433
PRIOR FILING DATE: 2002-03-11
NUMBER OF SEQ ID NOS: 149
SOFTWARE: FASTSEQ for Windows Version
SEQ ID NO 2
LENGTH: 52
                                                                                                                                                                                                                                                                                                                                                                        Query Match 100.0%;
Best Local Similarity 100.0%;
Matches 31; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 2, Application US/10197954
Publication No. US20030119021A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CURRENT APPLICATION NUMBER: US/10/197,954
CURRENT FILING DATE: 2002-07-16
CRICK APPLICATION NUMBER: 60/306,019
PRIOR FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 60/314,123
PRIOR FILING DATE: 2001-08-21
PRIOR FILING DATE: 2001-08-21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Siddiqi, Suhaib
APPLICANT: Little, Daniel
TITLE OF INVENTION: Capture Compounds, Collections Thereof
TITLE OF INVENTION: And Methods For Analyzing The Proteome And Complex
TITLE OF INVENTION: Compositions
FILE REFERENCE: 24743-2305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: K"ster, APPLICANT: Siddig APPLICANT: Little
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ORGANISM: Homo Sapien
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SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
APPLICATION NUMBER: EP 02077060.8
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TYPE: amino acid
STRANDEDNESS: single
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100.0%; Pred. No. 4.1e-16;
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                                                                                                                                                                                                                                                                                                                                                                                           Score 163; DB 14;
Pred. No. 4.1e-16;
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                                                                              of (poly)peptide in the lantibiotic way
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                                                                               ; ORGANISM: Homo sapiens
US-10-364-889-6
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US-10-364-889-6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUMBER OF SEQ ID NOS: 309
SOFTWARE: PatentIn version 3.1
SEQ ID NO 74
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Query Match 100.0%; Score 163; DB 14; Best Local Similarity 100.0%; Pred. No. 1.8e-15; Matches 31; Conservative 0; Mismatches 0;
                                                                                                                                                               SEQ ID NO 6
                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 6, Application US/10364889 Publication No. US20030224989A1
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Best Local
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                                                                                                                                                                            APPLICANT: Pahel, Gregory L.
APPLICANT: Opinn, Kerry
TITLE OF INVENTION: Compositions and Methods for Treatment of Osteoarthritis
FILE REFERENCE: 21402-558
CURRENT APPLICATION NUMBER: US/10/364,889
CURRENT FILING DATE: 2003-02-12
PRIOR APPLICATION NUMBER: 60/356,376
PRIOR FILING DATE: 2002-02-12
NUMBER OF SEQ ID NOS: 8
SOFTWARE: CuraSeqList version 0.1
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TITLE OF INVENTION: Peptides
FILE REFERENCE: 480821.00004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 2002-05-24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FEATURE: OTHER INFORMATION: All, S16-sequence of Adrenomedullin Hypotensive peptide
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                                                                                                                     LENGTH: 185
TYPE: PRT
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RESULT 11
US-10-755-889-148
;<sub>4</sub>Sequence 148, Application US/10755889
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US-10-372-683-12
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PRIOR FILING DATE: 2002-09-30
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentin version 3.2
SEQ ID NO 7
SEQ ID NO 7
                                                                                                                                                                                           Matches
                                                                                                                                                                                                            Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
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LENGTH: 185
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 5138
CURRENT APPLICATION NUMBER: US/10/675,406A
CURRENT FILING DATE: 2003-09-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Bayer Pharmaceuticals Corporation
APPLICANT: Evelsigh, Deepa
APPLICANT: Taylor, Ian
TITLE OF INVENTION: METHODS FOR PREDICTION AND PROGNOSIS OF CANCER, AND MONITORING
TITLE OF INVENTION: CANCER THERAPY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILE REFERENCE: P1928R1P1
CURRENT APPLICATION NUMBER: US/10/372,683
CURRENT FILING DATE: 2003-02-21
PRIOR APPLICATION NUMBER: US 10/271,690
PRIOR FILING DATE: 2002-10-16
PRIOR APPLICATION NUMBER: US 60/344,534
PRIOR FILING DATE: 2001-10-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: PEALE JR., FRANKLIN V.
APPLICANT: WU, THOMAS D.
TITLE OF INVENTION: METHODS FOR THE TREATMENT OF CARCINOMA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: GERRITSEN, MARY E. APPLICANT: PEALE JR., FRANKL APPLICANT: WU, THOMAS D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 49
                                                                                                                                                                                                                                                                                                              TYPE: PRT
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                                                                                                                                                                                           31; Conservative
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                                                                                                                                                                                                          100.0%;
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                                                                                                                                                                                                          Score 163; DB 16;
Pred. No. 1.8e-15;
                                                                                                                                                                                           Mismatches
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COMPUTER READABLE FOLL MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION DATA: APPLICATION UNMBER: US/09/813,345 FILING DATE: 20-Max-2001 CLASSIFICATION: «Unknown ATTORNEY/AGENT INFORMATION: ANAME: MCCCATMACK, MYTA H REGISTRATION NUMBER: 180.00020101 REFERENCE/DOCKET NUMBER: 180.00020101 TELEOPHONE: 612/305-1220
INFORMATION OF SEQUENCE CHARACTERISTICS: LENGTH: 50 amino acids TYPE: Amino Amino acids TYPE: Amino 
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US-09-813-345-15
US-09-813-345-15
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Best Local S
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Patent No. US20020068814A1
GENERAL INFORMATION:
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CURRENT FILING DATE: 2004-01-13
PRIOR APPLICATION NUMBER: U.S. 60/440,068
PRIOR FILING DATE: 2003-01-14
PRIOR APPLICATION NUMBER: U.S. 60/469,757
PRIOR FILING DATE: 2003-05-12
PRIOR FILING DATE: 2003-05-12
NUMBER OF SEQ ID NOS: 823
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TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ASSOCIATED WITH THE NF-kB
TITLE OF INVENTION: PATHWAY
FILE REFERENCE: D0284 NP
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TYPE: PRT
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Saha, Shankar
Abel, Peter W.
                                       MOLECULE TYPE: peptide SEQUENCE DESCRIPTION: SEQ ID NO: 15:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: PEPTIDE ANTAGONISTS OF CGRP-RECEPTOR SUPERFAMILY AND METHODS OF USE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADDRESSEE: Mueting, Raasch & Gebhardt, P.A. STREET: 119 No. US20020068814Alth Fourth Street CITY: Minneapolis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STATE: MN
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APPLICANT: GREY, KARRY
APPLICANT: MACRI, CHARLES
ITILE OF INVENTION: Functional Role of Adrenomedullin (AM) and the
ITILE OF INVENTION: Gene-Related Product (PAMP) in Human Pathology and
TITLE OF INVENTION: Gene-Related Product (PAMP) in Human Pathology and
TITLE OF INVENTION: Hybiology
FILE REFERENCE: 2026-4202US4
CURRENT APPLICATION NUMBER: US/99/31,700
CURRENT PILING DATE: 2001-08-16
PRIOR APPLICATION NUMBER: 09/011,922
PRIOR FILING DATE: 1998-02-17
PRIOR APPLICATION NUMBER: PCT/US96/13286
PRIOR APPLICATION NUMBER: US/60/013,172
PRIOR APPLICATION NUMBER: US/60/013,172
PRIOR APPLICATION NUMBER: US/60/013,172
PRIOR PILING DATE: 1995-08-16
PRIOR PILING DATE: 1995-03-12
PRIOR PILING DATE: 1995-03-12
PRIOR APPLICATION NUMBER: US/60/002,936
PRIOR PILING DATE: 1995-08-18
PRIOR FILING DATE: 1995-08-18
PRIOR FILING DATE: 1995-08-18
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                                                                                                                                                                                                                                                                                                               RESULT 14
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                                                                                                                                                                                                                                                                                        US-10-437-963-124471
                                                                                                                                                                                                                    Sequence 124471, Application US/10437963
Publication No. US20040123343A1
GENERAL INFORMATION:
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Best Local
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                                                                                                                       APPLICANT: La ROBA, Thomas J.
APPLICANT: Kovalic, David K.
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
APPLICANT: Boukharov, Andrey A.
APPLICANT: Barbazuk, Brad
APPLICANT: Barbazuk, Brad
APPLICANT: Li, Ping
TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
                                                                                          APPLICANT:
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SOFTWARE: PatentIn Ver. :
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APPLICANT: MARTINEZ, ALFREDO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: PRT ORGANISM: Artificial Sequence FEATURE:
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Local Similarity 100.0%;
les 10; Conservative (
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                                                                                                            Zhou, Yihua
Cao, Yongwei
Wu, Wei
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Pred: No. 5.9e-14;
3; Mismatches 1; Indels
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Search completed: January 5, 2005, 09:15:07 Job time: 548.136 secs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 15
                                                                                                                                                                                                                                                                                                            APPLICANT: LA ROSA Thomas J
APPLICANT: Kovalic David K
APPLICANT: Chou vihua
APPLICANTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 274214
LENGTH: 44
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 274214, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
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CURRENT APPLICATION NUMBER: US/10/437,963
CURRENT FILING DATE: 2003-05-14
NUMBER OF SEQ ID NOS: 204966
SEQ ID NO 124471
LENGTH: 67
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OTHER INFORMATION: Clone ID: PAT_MRT3847_89637C.1.pep
                                                                                                                                                                                                                                                                                              ORGANISM: Glycine max
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Local Similarity 41.7%;
les 10; Conservative
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                                                                                                                   1 TVOKLAHQIYQFTDKDKDNVAPRSKISP 28
                                                                                                                                                                             Similarity
                                                                          TFQKIYHQFLKSTNKEWAKCAPTNVCSP
                                                                                                                                                         Conservative
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Pred. No. 6.2;
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Pred. No. 5.
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Minimum DB :
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           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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           GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
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hypothetical prote
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S-locus-specific g
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hypothetical prote
S-locus-specific g
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Query Match
Best Local Similarity 100.

100.0%; Score 163; DB 2; 100.0%; Pred. No. 2.7e-16; tive 0; Mismatches 0;

Length 185; Indels

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Gaps

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3 2 4 4 5	A;Molecule type: mRNA A;Residues: 1-185 <kita 1-185="" 22-41="" <kita="" <kiz="" a;accession:="" a;cross-references:="" a;molecule="" a;residues:="" gb:d14874;="" nid:g455470;="" pidn:baa03589.1;="" pii="" pn0548="" protein="" type:=""> R;Kitemura, K.; Kangawa, K.; Kawamoto, M.; Ichiki, Y.; Nakamura, R;Kitemura, K.; Kangawa, K.; Kawamoto, 192, 553-560, 1993 A;Title: Adrenomedullin: A novel hypotensive peptide isolated fr A;Reference number: JN0476; MUID:93249425; PMID:8387282 A;Accession: JN0476</kita>	70 % 82	30 48 29.4 689 2 S39531 excir 31 48 29.4 856 1 JC2482 S-rec 32 48 29.4 858 1 JC2481 33 48 29.4 1705 2 F71414 34 47.5 29.1 438 2 A55070 35 47 28.8 429 2 T14524 36 47 28.8 545 2 A84938 37 47 28.8 8549 2 T33517 38 47 28.8 8549 2 T34517 39 47 28.8 850 2 T14472 S-rec 39 47 28.8 850 1 JQ1677 40 47 28.8 1268 2 X64125 41 47 28.8 1268 2 X64125 42 47 28.8 1268 2 X64125 43 46.5 28.5 340 2 S41752 44 46 28.2 204 2 AD2607 ALIGNMENTS
ontrol; hormone I(3- E(4-PEU)- peptide #status predicted <pap>- al <mat- tus predicted <ctp- ide in mature form from following gl-</ctp- </mat- </pap>	A03589.1; PID:g500612 Y.; Nakamura, S.; Matsuo, H.; Bto, T e isolated from human pheochromocytou 7282	#text_change 09-Jul-2004 Matsuoka, H.; Kitamura, K.; Eto, T. gene. 4714 g765329; PIDN:AAC60642.1; PID:g76533; ; Matsuo, H.; Eto, T. ing a precursor for human adrenomedu	excinuclease ABC c S-receptor kinase S-receptor kinase S-receptor kinase Mypothetical prote DNA primase (BC 2. S-locus-specific g flagellar M-ring p hypothetical prote S-receptor kinase S-receptor kinase transposase Th452 high density lipop canalicular multid UDP-3-O-[3-hydroxy hypothetical prote conserved hypothet

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essure control.

C;Keywords: amidated carboxyl end
C;Keywords: amidated carboxyl end
F;1-21/Domain: signal sequence #status predicted <SIG>
F;1-21/Domain: signal sequence #status predicted <PEU>
F;22-185/Product: proadrenomedullin #status predicted *PEU>
F;22-41/Product: proadrenomedullin amino-terminal 20 peptide #status predicted <PAP>
F;94-143/Product: adrenomedullin #status predicted <PAT>
F;94-143/Product: adrenomedullin #status predicted <PAT>
F;94-143/Modified site: amidated carboxyl end (Arg) (amide in mature form from following F;143/Modified site: amidated carboxyl end (Tyr) (amide in mature form from following F;143/Modified site: amidated carboxyl end (Tyr)
hypothetical protein Z0078 [imported] - Escherichia coli (strain O157:H7, substrain C;Species: Escherichia coli C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004 C;Accession: A85489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: protein
A;Residues: 22-41 <SA2>
C;Comment: This precursor contains a unique 20-amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Reference number: JN0766; MUID:93384621; PMID:7690563
A;Accession: JN0766
A;Molecule type: mRNA
A;Residues: 1-185 <SAK>
A;Cross-references: UNIPROT:P43145
A;Accession: PN0610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Biochem. Biophys. Res. Commun. 195, 921-927, 1993
A;Title: Molecular cloning and biological activities of rat adrenomedullin, a hypotensiv A;Reference number: JN0766; MUID:93384621; PMID:7690563
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Rattus norvegicus (Norway rat)
C;Date: 30-Sep-1993 #sequence_revision 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R; Kitamura, K.; FEBS Lett. 338,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       밁
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: mRNA
A; Residues: 1-188 <KIT>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  drenomedullin - pig
;Species: Sus scrofa domestica (domestic pig)
;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 09-Jul-2004
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                                                                                                                                                                                                                              TMQKLAHQIYQFTDKDKDGMAPRNKISPQGY 143
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                                                                                                                                                                                                                                                                                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                       90.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        T.; Kitamura, K.; Nakamura, S.; Kangawa, K.; Matsuo,
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                                                                                                                                                                                                                                                                                                                                                       Score 148; DB 2;
Pred. No. 4.2e-14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 157; DB 2
Pred. No. 2e-15;
0; Mismatches
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                  A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-430 <KUS>
A;Residues: 1-430 <KUS>
A;Cross-references: UNIPROT:023846; EMBL:D85212; NID:g2351155; PIDN:BAA21946.1; PID:g235
C;Superfamily: S-locus-specific glycoprotein; S-locus-specific glycoprotein homology
C;Keywords: glycoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 6
T14536
                                                                                                                                                                                                                                                                                                                       C;Species: Brassica oleracea (wild cabbage)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change
C;Accession: T14536
                                                                                                                                                                          A; Reference number: A; Accession: T14536
                                                                                                                                                                                                                                                                           R;Kusaba, M.; Nishio, T.; Satta, Y.; Hinata, K.; Ockendon, Proc. Natl. Acad. Sci. U.S.A. 94, 7673-7678, 1997
                                                                                                                                                                                                                                                                                                                                                                                                      S-locus-specific glycoprotein - wild cabbage N;Alternate names: S glycoprotein
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Z18078; MUID:97352858; PMID:920715:

and intra-specific comparisons

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class

09-Jul-2004

(fragment)

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A;ACCCBB-LC.
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-189 <HAY>
A;Cross-references: UNIPROT:Q8XA03; GB:BA000007;
A;Cross-references: strain O157:H7, substrain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Nature 409, 529-533, 2001
A;Title: Genome sequence of enterohemorrhagic Escherichia coli CA;Reference number: A85480; MUID:21074935; PMID:11206551
                                                                                                                            A;Gene: ECs0073
C;Superfamily: Escherichia coli yabP protein
                                                                                                                                                                                                                                                                                                   DNA Res. 8, 11-22, 2001
A; Title: Complete genome
                                                                                                                                                                                                                                                                                                                                  C;Accession: A99638
R;Hayashi, T.; Makino,
gasawara, N.; Yasunaga,
                                                                                                                                                                                                                                                                   A; Reference number: A; Accession: A99638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Gene:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: UNIPROT:Q8XA03; GB:AE005174; A;Experimental source: strain O157:H7, substrain
                                                                                                                                                                                                                                                                                                                                                                                     C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                       hypothetical protein ECs0073 [imported] - Escherichia coli (strain O157:H7, substrain
                                                                                                                                                                                                                                                                                                                                                                                                                                        A99638
                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 5
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                               4 KLAHQIYQFTD----KDKDNVAPRSKISPQG
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KLTHWLIKFNELKEYAKDPENMAAKASLSPEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KLTHWLIKFNELKEYAKDPENMAAKASLSPEG
                                                                                                                                                                                                                                                                                                                                      Makino, K.; Ohnishi, M.;
Zasunaga, T.; Kuhara, S.;
                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                     enome sequence of enterohemorrhagic Escherichia coli O157:H7
A99629; MUID:21156231; PMID:11258796
                                                                                35.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          35.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 58.5; D
Pred. No. 0.52
9; Mismatches
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                                                                9
                                                                                Score 58.5;
Pred. No. 0
                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                    Kurokawa, F
Shiba, T.;
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.52;
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                                                                                                                                                                                   PIDN:BAB33496.1;
RIMD 0509952
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EDL933
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                                                                Indels
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                                                                                                                                                                                                                                                                                                                                      M.; Shinagawa,
                                                                                                  189;
                                                                                                                                                                                                                                                                                                                                                  K.; Yokoyama,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             189;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  J.D.; Rose, D.J.; Mayher. Potamousis, K.; Apodaca,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PIDN: AAG54373.1;
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                                                                                                                                                                                                  PID:g13359529; GSPDB:C
                                                                Gaps
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A;Cross-references: UNIPROT:Q9K6R4; GB:AP001519; A;Experimental source: strain C-125 C;Genetics: A;Genetics: A;Gene: RM2677
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A/Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-431 <KUS>
A;Cross-references: UNIPROT:023849; EMBL:D85215; NID:g2351161; PIDN:BAA21949.1; PID:g235
C;Superfamily: S-locus-specific glycoprotein; S-locus-specific glycoprotein homology
C;Keywords: glycoprotein
hypothetical protein C17C3.1 - Caenorhabditis elegans C,Species: Caenorhabditis elegans C,Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #tcC;Accession: T15540
                                                                          RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N/Alternate names: S glycoprotein
C/Species: Brassica rapa (turnip)
C/Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change
                                                                                                                                                       밁
                                                                                                                                                                                         S
                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphilic bacterium A;Reference number: A83650; MUID:20512582; PMID:11058132
A;Accession: G84107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004 C;Accession: G84107
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A;Accession: T14415
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R;Kusaba, M.; Nishio, T.; Satta, Y.; Hinata, K.; Ockendon, D. Proc. Natl. Acad. Sci. U.S.A. 94, 7673-7678, 1997
A;Title: Striking sequence similarity in inter- and intra-specific
                                                                                                                                                                                                                                                                                                                                                                                                                           A, Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  lipopolysaccharide biosynthesis BH3663 [imported] - C;Species: Bacillus halodurans
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            S-locus-specific
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Best Loc
Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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                                                                                                                                                     VYKLAHQIVSLSEGVKENLVRRYKI 156
                                                                                                                                                                                           VOKLAHOIYOFTDKDKDNVAPRSKI 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       OKLNYMVYNPTENSEDVAYTFRMTNKSIYSRLKISSEGP 270
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25.6%;
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                                                                                                                                                                                                                               Score 54; DB Pred. No. 5; 4; Mismatches
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Pred. No. 1.5;
              20-Sep-1999 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (fragment)
                                                                                                                                                                                                                                                                      <u>ب</u>
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                                                                                                                                                                                                                                                                                                                                                                    GB:BA000004; NID:g10176109; PIDN:BAB07
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                  12-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Bacillus halodurans
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                                                                                                                                                                                                                                                                  S-locus-specific glycoprotein S6 - radish (fragment)
C;Species: Raphanus sativus (radish)
C;Date: 14-May-1999 #sequence_revision 14-May-1999 #text_change 09-Jul-2004
                                                                                                                                                                       Mol. Gen. Genet. 258, 397-403, 1998
A; Title: Polymorphism of the S-locus glycoprotein
A; Reference number: Z16146; MUID: 98311079; PMID: 96
                                    A;Gene:
                                                                        A;Cross-references: UNIPROT:080351; EMBL:AB009682; NID:g3327849;
                                                                                              A;Residues: 1-428 <SAK>
                                                                                                          A;Status: preliminary; translated from GB/EMBL/DDBJA;Molecule type: DNA
                                                                                                                                                   A; Accession: T07814
                                                                                                                                                                                                                             C;Accession: T07814
R;Sakamoto, K.; Kusaba, M.; Nishio,
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RESULT 10
T14529
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R;Kusaba, M.; Nishio, T.; Satta, Y.; Hinata, K.; Ockendon, Proc. Natl. Acad. Sci. U.S.A. 94, 7673-7678, 1997
Proc. Natl. Acad. Sci. U.S.A. 94, 7673-7678, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Du, Z.
submitted to the EMBL Data Library, November 1995
A;Description: The sequence of C. elegans cosmid
                             δ
                                                                                                                                                    A;Residues: 1-428 <KUS>
A;Cross-references: UNIPROT:023839; EMBL:D85205; NID:g2351141; C;Superfamily: S-locus-specific glycoprotein; S-locus-specific
                                                                                                                                                                                                                                                                                                                                                                     S-locus-specific glycoprotein - wild cabbage (fragment)
N;Alternate names: S glycoprotein
C;Species: Brassica oleracea (wild cabbage)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Map position: 2
A;Introns: 124/2; 138/2; 174/2; 223/1; 369/2
C;Superfamily: acyl-CoA thioesterase II (TesB) with DUF545 domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Description: The sequence of C. A;Reference number: Z18366
A;Accession: T15540
A;Status: preliminary; translated
밁
                                                                                                                                       C; Keywords: glycoprotein
                                                                                                                                                                                                             A; Molecule type: DNA
                                                                                                                                                                                                                              A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                  A;Reference number: Z18078; MUID:97352858; PMID:9207151
A;Accession: T14529
                                                                                                                                                                                                                                                                                                      A; Title: Striking sequence similarity
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                                                                    Matches
                                                                                                     Query Match
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 229
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                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                               OKLAHQIYQFTDKDKD---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QEIAHKFFDFTBLKKDSFSP 175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       QKLAHQIYQFTDKDKDNVAP 22
QKLSYMVYNFTENSEBVAYTFRMTNNSFYSKLKVSSDGY
                                                                  Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL:U41279; NID:g1086905; PID:g1086919; ce: strain Bristol N2; clone C17C3
                                                                                     31.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             32.5%;
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                                                                                     Score 52; DB
Pred. No. 11;
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                               -----NVAPRSKISPOGY 31
                                                                    Mismatches
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                                                                    10;
                                                                                                    Length 428;
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                                                                      Indels
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                                                                                                                                                         PIDN:BAA21939.1; PID:g23 glycoprotein homology
                                                                    10;
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Superfamily: S-locus-specific glycoprotein; S-locus-specific glycoprotein homology;

PIDN:BAA31729.1; PID:g

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PMID: 9648745

(SIG)

and

the

S-locus

related

ge

SLG (S6)

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RESULT 14
T14471
                                                                                                                                                                                                                                                                             A;Cross-references: UNIPROT:PUT/61
C;Superfamily: S-locus-specific glycoprotein; S-locus-specific glycop
C;Keywords: glycoprotein
F;1-31/Domain: signal sequence #status predicted <SIG>
F;32-436/Product: S-locus-specific glycoprotein S6 #status predicted
F;40-434/Domain: S-locus-specific glycoprotein homology <SSG>
                                                                                                                                                                                                                                                                                                                                                                                                                                                         S-locus-specific glycoprotein S6 precursor - wild cabbage (Species: Brassica oleracea (wild cabbage) (C;Species: Brassica oleracea (wild cabbage) (C;Date: 19-May-1989 #sequence_revision 19-May-1989 #text_change 09-Jul-200 (C;Accession: A27827 R;Nasrallah, J.B.; Kao, T.H.; Chen, C.H.; Goldberg, M.L.; Nasrallah, M.E. Nature 326, 617-619, 1987 A;Title: Amino-acid sequence of glycoproteins encoded by three alleles of A;Reference number: A93392 A;Accession: A27827 A;Accession: A27827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               s-rocus-specific glycoprotein - wild cabbage (fragment)
N;Alternate names: S glycoprotein
C;Species: Brassica oleracea (wild cabbage)
C;Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change
C;Accession: T14533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 12
T14533
              probable S-receptor kinase (EC 2.7.1.-) srk29
C;Species: Brassica oleracea (wild cabbage)
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                                                                                                                                                                          S
                                                                                                                                                                                                                                                                                                                                                                                                                       A; Molecule type: mRNA
A; Residues: 1-436 < NAS>
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A;Status: preliminary; translated
A;Molecule type: DNA
A;Residues: 1-429 <KUS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Title: Striking sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Kusaba, M.; Nishio, T.; Satta, Y.; Hinata, K.; Ockendon, Proc. Natl. Acad. Sci. U.S.A. 94, 7673-7678, 1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Reference number: Z18078; MUID: 97352858; PMID: 9207151
;Species:
                                                                                                                                                                                                                    Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                         Cross-references: UNIPROT: P07761
Superfamily: S-locus-specific glycoprotein; S-locus-specific glycoprotein homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local (
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Superfamily: S-locus-specific glyo
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                                                                                                                                                                          3 QKLAHQIYQFTDKDKD------NVAPRSKISPQGY 31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3 QKLAHQIYQFTDKDKD------NVAPRSKISPQGY 31
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          QKLSYMVYNFTENSEEVAYTFLMTNNSIYSRLTISSSGY 267
                                                                                                                                      OKLSYMVYNFTENSEEVAYTFRMTNNSIYSRLTLSSEGY
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                                                                                                                                                                                                                      Conservative
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25.6%;
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                                                                                                                                                                                                                  10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            843; EMBL:D85209; NID:g2351149; PIDN:BAA21943.1; glycoprotein; S-locus-specific glycoprotein homo
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                                                                                                                                                                                                                                       Score 51; DB 2; Length 436; Pred. No. 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 51; DB Pred. No. 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 51; DB
Pred. No. 16;
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                                   cabbage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     by three alleles of the
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Search completed: January

5, 2005,

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C;Accession: C86279

R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alons R;Theologis, A.; Ecker, J.R.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K ansen, N.F.; Hughes, B.; Huizar, L.

Rature 408, 816-820, 2000

A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.A.; Li, J.H.; Li, Y.; Liu, S.X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marzial Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.

A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.

A;Fitle: Sequence and analysis of chromosome 1 of the plant Arabidopsis.

A;Reference number: A86141; MUID:21016719; PMID:11130712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              uypornetical protein F14L17.23 [imported] - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 02-Mar-2001 #sequence ravision of cress
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Description: implicated in the self-incompatibility system of Brassica oleracea C;Superfamily: S-receptor kinase; protein kinase homology; S-locus-specific glycoprotein C;Keywords: ATP; phosphotransferase; serine/threonine-specific protein kinase; signal tr F;41-436/Domain: S-locus-specific glycoprotein homology <SSS> F;526-813/Domain: protein kinase homology <KIN>
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A;Residues: 1-857 <KUM>
A;Cross-references: UNIPROT:Q39392; EMBL:Z30211; NID:g459244; PIDN:CAA82930.1; PID:g4592
A;Experimental source: strain alboglabra; stigma
  닭
                                                                                                                                                                                                                                                                                             A; Molecule type: DNA
A; Residues: 1-90 <STO>
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Best Local &
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                                                                                                           Conservative
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                                                                                                                                                                                                                                                                    UNIPROT: Q9M9R8; GB: AE005172; NID: g7262688; PIDN: AAF43946.1; GSPDB: GN
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Pred.
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Pred. No. 35;
8; Mismatches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso, Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K.,
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Result
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 200000000
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Perfect score:
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   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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Match
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1: uniprot_sprot:*
2: uniprot_trembl:*
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AAP35548
ADML_PIG
ADML_CANFA
ADML_RAT
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Q7ahr7 escherichia
Q8xa03 escherichia
Q8xa03 escherichia
Q8xa03 escherichia
Q8xa04 brassica ol
Q9seb5 hirschfeldi
Q84kw0 brassica ol
Q23849 brassica ol
Q84b2 brassica ol
Q84b2 brassica ol
Q84kx4 brassica ol
Q84kx4 brassica ca
Q9k6r4 bacillus ha
Q75xw7 fugu rubrip
Bad02342 fugu rubrip
Q74jC1 lactobacill
Aas09009 lactobaci
Q9bia5 caenorhabdi
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Q9trz6 sus scrofa
Q75xw8 fugu rubrip
Bad02341 fugu rubr
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077559 canis famil
P43145 rattus norv
Aah61775 rattus no
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Aap35548 homo sapi
P53366 sus scrofa
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Q95kp0 bos taurus
P97297 mus musculu
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use cDNA	cn A., a	field Y	ley R.W.,	J., Helt g M., Ma	-	S.A., Mo	Raha S.S., Loque	Stapleton M.,	۳.	1 S.F.	Klausner R.D.,	MEDLINE=22388257;	TISSUE=Kidney;		Bio	× .	MEDLINE=94354869;	_	n. Biophys.	ng and o	ra K., 8	SEQUENCE FROM N.A. TISSUE=Pheochromocytoma		Mammalia; Eutheria;	sapiens (Human)	DM: Symo	0	1994	1994	HUMAN			52 31							
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sequences.";	initial analys	Krzywinski	Touchman J.W.,	Ketteman M., Young A.C.,	y D.M., S	J., MCK	N.A.,	-		E B., B	B.F.S., W	Med=124			human Commu	Mateuo	13		. Commun.	"Cloning and characterization o	., Kangawa	L		Primates;	hordata)AM-N20)	ns: Adr	T a	Create	RD;		ļ	NN	4 4 0 0	4 4 13 13	22 12)))	9 9 N N	22	7 2
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	000 full-	mailus	M M.C.,	Rodrigues S., Y., Bouffard	Gibbs R.	Gunaratne	:	17.L., S	1., Hong L	J.F., Bhat	M., Schule	18.24260389				suoxa n.				precurso	вио Н.,			••		/anrıdad	Proadrenomedullin						Aar Aar	0 0 0 0 0 0	06 gi	068 Car	Q6m	Q75 Bad	Q 64 4 8 Q	de0
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Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).

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EMBL; D14874; BAA03589.1; -.
EMBL; S73906; AAC60642.1; -.
EMBL; BC015961; AAH15961.1; -.
EMBL; D43639; BAA07756.1; ALT
PIR; JC2351; JN0684.
Genew; HGNC259; ADM.
                                                                                                                                                   Genew; HGNC: 259; ADM.

MIM; 103275; ---
GO; GO:0005615; C:extr
GO; GO:0005625; C:solu
GO; GO:0005102; F:rece
GO; GO:0006171; P:cAMP
GO; GO:0007267; P:cell
GO; GO:0007267; P:prog
GO; GO:0007565; P:prog
GO; GO:0007565; P:prog
GO; GO:0007165; P:sign
InterPro; IPRO01710; A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               [4]
SEQUENCE OF 95-146.
TISSUE-Pheochromocytoma;
MEDLINE-93249425; PubMed-8387282;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Structure-activity relationships of adrenomedullin in the circulation and adrenal gland.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=20053666; PubMed=10588445; Champion H.C., Nussdorfer G.G., Kadowitz P.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Proadrenomedullin-derived peptides."; Front. Neuroendocrinol. 19:100-127(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Samson W.K.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=98240137; PubMed=9578982;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Biochem. Biophys. Res. Commun. 192:553-560(1993)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matsuo H., Eto T.; a novel hypotensive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Kitamura K.,
                                                                                                                                                                              10; GO:0005615; C:extracellular space; TAS.
10; GO:0005625; C:soluble fraction; TAS.
10; GO:0005102; F:receptor binding; TAS.
10; GO:0006171; F:cAMP biosynthesis; TAS.
10; GO:0007267; F:cell-cell signaling; TAS.
10; GO:0007267; F:crellation; TAS.
10; GO:0008015; F:circulation; TAS.
10; GO:0007165; F:pregnancy; TAS.
10; GO:0007165; F:pregnancy; TAS.
10; GO:0007165; F:pregnancy; TAS.
10; GO:0007165; F:response to wounding; TAS.
10; GO:0006711; F:response to wounding; TAS.
10; GO:0007165; F:signal transduction; TAS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FUNCTION: AM and PAMP are potent hypotensive and vasodilatator agents. Numerous actions have been reported most related to the physiologic control of fluid and electrolyte homeostasis. In the kidney, am is diurette and natriurette, and both am and pamp inhibit aldosterone secretion by direct adrenal actions. In pituitary gland, both peptides at physiologically relevant doses inhibit basal ACTH secretion. Both peptides appear to act in brai and pituitary gland to facilitate the loss of plasma volume, actions which complement their hypotensive effects in blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUBCELLULAR LOCATION: Secreted.
TISSUE SPECIFICITY: Highest levels found in pheochromocytoma and adrenal medulla. Also found in lung, ventricle and kidney tissues.
SIMILARITY: Belongs to the adrenomedullin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     adrenal gland.";
ul. Pept. 85:1-8(1999)
 Pro; IPR001710; Adrenomedullin. PF02039; Adrenomedullin; 1.
                                                                                                                                       PR00801; ADRENOMEDULN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Kangawa K.,
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                                                                                                                                                                                                                                                                                                                                                                                                  ALT_SEQ
                                                                                                                      of basic
                    Adrenomedullin.
PreproAM C-terminal
                                                                      Proadrenomedullin N-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 It is produced through
                                                                                                   Polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peptide isolated
                                                                                                                    residues;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oved. Usage by and for (See http://www.isb-sib
                                                                                                   Signal
                                                                    terminal peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  restrictions
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Matches 31
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P53366;
01-OCT-1996
01-OCT-1996
05-JUL-2004
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AAP35548;
02-MAR-2004
02-MAR-2004
                                                                                                                                                                                                                                                   01-OCT-1996 (Rel. 34, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
ADM precursor [Contains: Adrenomedullin (AM);
terminal peptide (ProAM-N20) (ProAM N-terminal
Name=ADM; Synonyms=AM;
                              Kitamura K., Kangawa K., Kojim: "Complete amino acid sequence or cDNA encoding its precursor."; PEBS Lett. 338:306-310(1994).
                                                                                SEQUENCE FROM
TISSUE=Adrenal medulla;
MEDLINE=94139945; PubMed=8043068;
MEDLINE=94139945, PubMed=8043068;
                                                                                                                                                                                                   Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kalnine N., Caphael Koundinya M., Raphael Phelan M., Farmer A.;
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Mammalia; Eutheria;
                                                                                                                                                                                                                                        Sus scrofa (Pig).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A. Kalnine N., Chen X.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
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SEQUENCE OF 22-41
                                                                                                                                                                                NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (MAY-2003)
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Primates;
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Cetartiodactyla; Suina; Suidae;
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Pred. No. 5.2e-15;
Mismatches 0;
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d=VAR 014861.
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adrenomedullin
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MEDLINE-94357274; PubMed-8076689;
Kitamura K., Kangawa K., Ishiyama Y., Washim
Kawamoto M., Minamino N., Matsuo H., Eto T.;
"Identification and hypotensive activity of
terminal 20 peptide (PAMP).";
PEBS Lett. 351:35-37(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
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PIR; S41600; S41600.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                      Imoto I., Jougasaki M.;
"Cloning of cDNA encoding canine adrenomedullin.";
Submitted (JAN-1999) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                              Canis familiaris (Dog).
Bukaryota; Metazoa; Chordata;
Mammalia; Butheria; Carnivora;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SIGNAL
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  SEQUENCE FROM N.A
                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                         NCBI_TaxID=9615;
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SUBCELLULAR LOCATION: Secreted.
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Pred. No. 3.8e-14;
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                                                                                                                                                                   Vertebrata;
ia; Canidae;
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01-NOV-1995 (Rel. 32, Last sequence update,
05-JUL-2004 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 44, Last annotation (AM); P
                                                                                                                                                                                                                                                                                                                                                                                                    CONFLICT
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Ono Y., Kojima M., Okada K., Kangawa K.;
"cDNA; cloning of canine adrenomedullin and heart and blood vessels in endotoxin shock.
Shock 10:243-247(1998).
                                                                                                                                                                                                                                            ADML_RAT
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EMBL; U96127; AAD09557.1; --
EMBL; U96127; AAD09557.1; --
InterPro; IPR001710; Adrenomedullin.
Pfam; PF02039; Adrenomedullin; 1.
PRINTS; PR00801; ADRENOMEDULN.
                                                  STRAIN=Sprague-Dawley; TISSUB=Adrenal MEDLINE=93384621; PubMed=7690563; Sakata J., Shimokuba T., Kitamura K., Matsuo H., Eto T.; Molecular cloning and biological act: "Molecular cloning and biological act:
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- SUBCELLULAR :
- SIMILARITY:
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By similarity.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the adrenomedullin family.
                                                                                                                                                                                                                                                                                                                                                          Score 152; DB
Pred. No. 2e-1
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                     group) (B
Tyrosine
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N -> K (in Ref. 2).
; 809D6A64F98F5578 CRC6
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By similarity.
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                                                                                                                                          Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Rat
                                                      activities
                                                                                                                                                                                                                                                                                                                                                                    No. 2e-13;
                                                                                                                                                                                                                                                                                                                                                                                                                                      (By similarity) ne amide (G-147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    It is produced through a cinformatics and the EMBL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                residues; Hormone; Signal.
                                                                                                                                                                                                                                                        185
                                                                                                                                                                                                                                                                                                                                                                                                                                                            amide
                                                                                                gland
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                                                                            Nakamura
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                                                                                                                                                                                     Proadrenomedullin N-20 l 20 peptide) (PAMP)].
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                                                      rat
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                                                       adrenomedullin,
                                                                                                                                            Murinae; Rattus
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6 outstation -
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Best Local (
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TISSUE=Prostate;
TISSUE=Prostate;
MEDLINE=22388257; PubMed=12477932;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Strausberg R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.
Klausner R.D., Collins F.S., Wagner L., Schaefer C.F., Bhat N.K.,
Altechul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Hate N.K.,
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
Diatchenko L., Marusina K., Bonaldo M.F., Casavant T.L., Scheetz T
                                                                                                                                                                                                                                                                                                                                                          02-MAR-2004
02-MAR-2004
02-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                       AAH61775;
AAH61775;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wang X., Yue T.L., Barone F.C., White R.F., Clark R.K., Sulpizio A.C., Aiyar N.V., Ruffolo R.R. Jr., Feuerstein "Discovery of adrenomedullin in rat ischemic cortex and its role in exacerbating focal brain ischemic damage.", Proc. Natl. Acad. Sci. U.S.A. 92:11480-11484(1995).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DISULFID MOD_RES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for come entities requires a license agreement (See http://www.isb-sib.ch/anor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROPEP
PEPTIDE
                                                                                                                                                                                                                                                                         Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                 NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                    Rattus
                                                                                                                                                                                                                                                                                                                                     Adrenomedullin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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RGD; 2047; A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Amidation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR001710; Adrenomedullin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE SPECIFICITY: Expressed in adrenal glands, heart, spleen, duodenum and submandibular glands. SIMILARITY: Belongs to the adrenomedullin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       agents.
SUBCELLULAR LOCATION
TISSUB SPECIFICITY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  113
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         D15069; BAA03665.1;
U15419; AAB60519.1;
                                                                                                                                                                                                                                                                                                                    norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27;
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149
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41
91
143
185
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                                                                                                                                                                                                                                                                                          Chordata;
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Proadrenomedullin N-2
By similarity.
Adrenomedullin.
PreproAM C-terminal isimilarity).
By similarity.
Arginine amide (G-42
                                                                                                                                                                                                                                                                                                                                                        Created)
Last sequence update)
Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 148; 1
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                                                                                                                                                                                                                                                                                            Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
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                                                                                                                                                                                                                                                                         Murinae; Rattus.
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RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., RA Villalon D.K., Muzny D.M., Sodergren B.J., Lu X., Gibbs R.A., RA Fahey J., Helton B., Ketteman M., Madan A., Rodrigues S., Sanchez A., RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., RA Blakesley R.W., Touchman J.W., Green B.D., Dickson M.C., RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S., RA Krzywinski M.I., Skalska U., Smailus D.B., Schnerch A., Schein J.B., Jones S.J., Marra M.A., Rodriguez C., Shevchenko Y., Bouffard G.G., RA Green S.J., Marra M.A., Touchman J.W., Green B.D., Dickson M.C., RA Graywinski M.I., Skalska U., Smailus D.B., Schnerch A., Schein J.B., Tones S.J., Marra M.A., Touchman J.W., Green E.D., Dickson M.C., RA Generation and initial analysis of more than 15,000 full-length human Tand mouse cDNA sequences.", U. Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
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Matches 27
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062827;
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EMBL; BC0
                                                                                                      the European Bioinformatics Institute. There use by non-profit institutions as long amodified and this statement is not removed. I entitles requires a license agreement (See httorsend an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                Barker S., Wood B., Clark A.J.L., Corder R., "Cloning of bovine preproadrenomedullin and expression in vascular endothelial cells by Life Sci. 62:1407-1415(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
05-UTL-2004 (Rel. 44, Last annotation update)
ADM precursor [Contains: Adrenomedullin (AM); F
terminal peptide (ProAM-NZO) (ProAM N-terminal
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[2]
                                                                                                                                                                                                                                circulation control (By similarity).
-!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: Belongs to the adrenomedullin family.
                                               Pfam;
                                                                            EMBL;
                                                                                                                                                                                                        This
                                                                                                                                                                                                                                                                                                                                                                                                                                            Bovinae; Bos.
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bos taurus
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                                                               InterPro;
                                                                                                                                                                                                                                                                               -!- FUNCTION: Hypotensive peptide. May
                                                                                                                                                                                                                                                                                                                                                              MEDLINE=98244567; PubMed=9585168;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE-Prostate;
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                                                                                                                                                                                    SWISS-PROT entry is copyright. It is produced through a ceen the Swiss Institute of Bioinformatics and the EMBL
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                                             Pro; IPR001710; Adrenomedullin PF02039; Adrenomedullin; 1.
                                                                            AJ001613; CAA04866.1; -.
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                                                              ADML MOUSE STANDARD (Proam Notes)

ADML MOUSE STANDARD (Proated)

16-OCT-2001 (Rel. 40, Created)

16-OCT-2001 (Rel. 40, Last sequence update)

05-JUL-2004 (Rel. 44, Last annotation update)

05-JUL-2004 (Rel. 44, Last annotation update)

05-JUL-2004 (Rel. 44, Last annotation update)

05-JUL-2004 (Rel. 44, Last annotation update)

05-JUL-2004 (Rel. 44, Last annotation update)

05-JUL-2004 (Rel. 44, Last annotation update)

05-JUL-2004 (Rel. 44, Last annotation update)
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
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KAIDAWA K., ELO T.;
"Adrenomedullin (11-26): a novel endogenous
isolated from bovine adrenal medulla.";
Peptides 22:1713-1718(2001).
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Bovinae; Bos.
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group) (By similarity).
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      Mus.
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      RESULT 10
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ID AAH52
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Best Local S
Matches 26
    Adrenomedullin.
Mus musculus (Mouse).
Eukaryota; Metazoa; Ch
Mammalia; Eutheria; Ro
                                                                                                          AAH52665;
AAH52665;
02-MAR-2004
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                                                                                        02-MAR-2004
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STRAIN=129/Sv;
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151
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      Chordata;
Rodentia;
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use by non-profit institutions as zony ..... Usage by and fo modified and this statement is not removed. Usage by and fo
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entities requires a license agreement (S or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Genomic organization, expre mouse adrenomedullin gene."; Genomics 37:395-399(1996).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Okazaki T., Ogawa Y., Tamura N., Mori Y.
Rochelle J.M., Taketo M.M., Seldin M.F.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=97092892; PubMed=8938454;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Expression of adrenomedullin, trophoblast giant cells at the Dev. Biol. 203:264-275(1998).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Yotsumoto S., Shimada
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               s SWISS-PROT entry is copyright. It is produced through ween the Swiss Institute of Bioinformatics and the Ew European Bioinformatics Institute. There are no restropy to the content of t
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                                                                                                                                                                                                                                                            TFOKLAHOIYOLTDKDKDGMAPRNKISPOGY
                                                                                                                                                                                                                                                                                         TVQKLAHQIYQFTDKDKDNVAPRSKISPQGY
                                                                                                                     PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                       Conservative
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Created)
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similarity).
By similarity.
Arginine amide (G-42
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Pred. No. 1e-11;
2; Mismatches
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Proadrenomedullin
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Craniata; Vertebrata; I Sciurognathi; Muridae;

Euteleostomi;

Murinae;

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RESULT
Q9TRZ6
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RX MEDLINE-22388.57; PubMed=12477932;

RX MEDLINE-22388.57; PubMed=12477932;

RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Alteschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Alteschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Alteschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Romstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulahy S.W.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Richards S., Worley G.C., Shevchenko J., Bouffard G.G.,

RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

RA Rodriguez A.C., Slavchan J.W., Green E.D., Dickson M.C.,

RA Rodriguez A.C., Stalka U., Smailus D.E., Schnerch A., Schein J.E.,

RA Arnes S. J. Makes G., Schmerch A., Schein J.E.,
Query Match
Best Local S
Matches 26
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Best L
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01-MAY-2000
01-MAY-2000
01-JUN-2003
                                                                       GO; GO:0005576; C:extracellular; IEA. GO; GO:0005179; F:hormone activity; IEA. IEA. GO:0005179; F:hormone activity; IEA. GO:0007170; Adrenomedullin. Pfam; PF02039; Adrenomedullin; 1. PRINTS; PR00801; ADRENOMEDULN. SEQUENCE 27 AA; 3063 MW; BBDC7FA18D8
                                                                                                                                                                                    Ichiki Y., Kitamura K., Kangawa K., Kawamoto M., Matsuo H., Eto T., "Distribution and characterization of immunoreactive adrenomedullin porcine tissue, and isolation of adrenomedullin [26-52] and adrenomedullin [34-52] from porcine duodenum.", J. Biochem. 118:765-770(1995).
                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A. MEDLINE=96157714; PubMed=8576091;
                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                          Bukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                 Sus scrofa (Pig).
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STRAIN=C57BL/6J; TISSUE=Egg;
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                                                                                                                                                                                                                                                                                                                                                                                                                   ADRENOMEDULLIN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Generation and initial analysis of more than 15,000 full-length human and mouse CDNA sequences.";
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AA; 20750 MW;
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Cetartiodactyla; Suina; Suidae;
               84.7%;
96.3%;
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83.9%;
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Score 138; DB 2; Length 27; Pred. No. 2.3e-12; O; Mismatches 1; Indels
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Pred. No. 1e-11;
2; Mismatches
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Q75XW8;
05-JUL-2004
05-JUL-2004
                                                                                                                                                                       EMBL; AB1
SEQUENCE
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neoptergoli; Teleostei; Buteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
Tetradontoidea; Tetraodontidae; Takifugu.
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Eukaryota; Metazoa; Chordata; Craniata; Verte
Actinopterygii; Neopterygii; Teleostei; Eutel
Acanthomorpha; Acanthopterygii; Percomorpha;
Tetradontoidea; Tetraodontidae; Takifugu.
                                                                                                                                                                                           Biochem. Biophys. Res. Commun. EMBL; AB120295; BAD02341.1; -.
                                                                                                                                                                                                                                                       MEDLINE=22984567; PubMed=14623291; Ogoshi M., Inoue K., Takei Y.; "Identification of a novel adrenom
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADM1.
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14-APR-2004 (TrEMBLrel.
14-APR-2004 (TrEMBLrel.
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14-APR-2004
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EMBL; AB120295; BAD02341.1; -
InterPro; IPR001710; Adrenomedullin.
Pfam; PF02039; Adrenomedullin; 1.
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Ogoshi M., Inoue F
                                                                                                                                                                                                                                     fish.";
                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
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nilarity 48.4%;
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AA; 20222 M
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of a novel adrenomedullin gene family in teleost
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Last annotation update)
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Last annotation update)
                                                                                Score 70; DB Pred. No. 0.09 6; Mismatches
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61535E41FCF88D4D CRC64;
                                                                                                                                                                       61535E41FCF88D4D CRC64;
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Euteleostei; Neoteleostei;
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RESULT 15
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kono T., Sakai M.;

"Molecular cloning and expression of preproadrenomedullin gene from common carp Cyprinus carpio L.";

Gen. Comp. Endocrinol. 138:78-88 (2004).

EMBL; AB120940; BA019046.1; -.

InterPro; IPR001710; Adrenomedullin.

Pfam; PP02039; Adrenomedullin; 1.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
Cyprinidae; Cyprinus.
NCBI TaxID=7962;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BAD19046;
20-MAY-2004 (TrEMBLrel. 27, Created)
20-MAY-2004 (TrEMBLrel. 27, Last sequence update)
20-MAY-2004 (TrEMBLrel. 27, Last annotation update)
                                                                                                         CHAIN
SEQUENCE
                                                                                                                                                             Signal.
SIGNAL
                                                                                                                                                                                                                                     "Molecular cloning of a novel preproadrenomedullin gene from common carp Cyprinus carpio L. and its expression."; Submitted (SEP-2003) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. TISSUE=Liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cyprinus carpio (Common carp).

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neperygii; Teleostei; Ostariophysi; Cypriniformes;

Cyprinidae; Cyprinus.
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                                                                                                                                                                                                                                                                                                                   Kono T., Sakai M.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Preproadrenomedullin precursor.
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Local Similarity hes 14; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     h 40.5%;
Similarity 45.2%;
14; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TVHVLAHRLHDLNNKLKIGNAPADKINPFGY 127
                                                                                                            171 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 171 AA;
     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                79
                                                                                                                                       79
                                                                                                      23 P
127 a
19412 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     23
127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               127 adrenomedullin.
19412 MW; A9595B9A11E5AC36 CRC64;
40.5%; Score 66; DB 2; Length 171;
45.2%; Pred. No. 0.34;
tive 5; Mismatches 12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 66; DB 2;
Pred. No. 0.34;
5; Mismatches 1
                                                                                                         adrenomedullin.
; A9595B9AllE5AC36 CRC64;
                                                                                                                                                                Potential.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Potential.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               171 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 171;
  o,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0,
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  Gaps
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